STATE OF NEW HAMPSHIRE
Department of Environmental Services
Air Resources Division

Title V Operating Permit

Permit No: **TV-OP-XXX**
Date Issued: **December XX, 2003**

draft

This certifies that:
Waste Management of New Hampshire, Inc.
P.O. Box 7065
Gonic, NH 03839

has been granted a Title V Operating Permit for the following facility and location:
Waste Management of New Hampshire, Inc.
Turnkey Recycling and Environmental Enterprise
30 Rochester Neck Road
Rochester, NH 03839
AFS Point Source Number - 3301700003

This Title V Operating Permit is hereby issued under the terms and conditions specified in the Title V Operating Permit Application filed with the New Hampshire Department of Environmental Services on **June 28, 1996 and revised on March 5, 1999 and January 17, 2002** under the signature of the following responsible official certifying to the best of their knowledge that the statements and information therein are true, accurate and complete.

Responsible Official:
Michael P. McInerney
General Manager
(603) 929-3366
Technical Contact:
William A. Howard, P.E.
District Engineer
(603) 330-2105

This Permit is issued by the New Hampshire Department of Environmental Services, Air Resources Division pursuant to its authority under New Hampshire RSA 125-C and in accordance with the provisions of Title 40 of Code of the Federal Regulations, Part 70.

This Title V Operating Permit shall expire on **December 31, 2008**

SEE ATTACHED SHEETS FOR ADDITIONAL PERMIT CONDITIONS

For the New Hampshire Department of Environmental Services, Air Resources Division

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Director, Air Resources Division

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ABBREVIATIONS

AAL	Ambient Air Limit
AP-42	Compilation of Air Pollutant Emission Factors
ARD	Air Resources Division
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
BHP (or bhp)	Brake Horse Power
BTU	British Thermal Units
CAA	Clean Air Act, 42 U.S.C. § 7401, et seq.
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstracts Service
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CNG	Compressed Natural Gas
CO	Carbon Monoxide
CO_2	Carbon Dioxide
COMS	Continuous Opacity Monitoring System
DER	Discrete Emission Reduction
Env-A	New Hampshire Code of Administrative Rules – Air Resources Division
Env-Wm	New Hampshire Code of Administrative Rules – Waste Management Division
ECS	Emission Control System
ERC	Emission Reduction Credit
FR	Federal Register
HAP	Hazardous Air Pollutant
HHV	High Heat Value
HCl	Hydrochloric acid
Hr	Hour
kGal	1,000 gallons
kW	Kilowatt
LAER	Lowest Achievable Emission Rate
Lb/hr	Pounds per hour
LNB	Low NO_x Burner
LNG	Liquid Natural Gas
LPG	Liquid Petroleum Gas (Propane)
MACT	Maximum Achievable Control Technology
mg/L	Milligrams per liter
MMBTU (or MMBtu)	Million British Thermal Units
MMCF	Million Cubic Feet
MW	Megawatt
NAAQS	National Ambient Air Quality Standard
NESHAPs	National Emissions Standards for Hazardous Air Pollutants
NG	Natural Gas
NHDES (or DES)	New Hampshire Department of Environmental Services
NMOC	Nonmethane Organic Compound
NO_x	Oxides of Nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PCB	Polychlorinated biphenyls

ABBREVIATIONS (cont.)

PE	Potential Emission
PM	Particulate Matter
PM_{10}	Particulate Matter less than 10 microns diameter
ppm	part per million
ppmv	part per million by volume
PSD	Prevention of Significant Deterioration
PSI	Pounds per Square Inch
PTE	Potential to Emit
RACT	Reasonably Available Control Technology
RTAP	Regulated Toxic Air Pollutant
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
T-12M	Tons during any consecutive 12-month period
TAP	Toxic Air Pollutant
TSP	Total Suspended Particulate Matter
TPY	Tons per Year
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

Facility Specific Title V Operating Permit Conditions

I. Facility Description of Operations

Waste Management of New Hampshire, Inc. (AWMNH≅) operates Turnkey Recycling and Environmental Enterprises (ATurnkey≅), a multi-faceted solid waste management facility, located in Rochester, NH. The predominant sources of air pollutant emissions at TREE are the landfills; the landfill gas recovery systems consisting of five flares, four engines, one emergency generator, two turbines; leachate treatment plant; fugitive dust sources, including vehicular traffic, landfill operations, construction activities, and the removal of material from on-site borrow pits for use as cover material; and spray painting operations at the maintenance facilities.

II. Permitted Activities

In accordance with all of the applicable requirements identified in this permit, the Permittee is authorized to operate the devices and or processes identified in Sections III, IV, V and VI within the terms and conditions specified in this Permit.

III. Significant Activities Identification and Stack Criteria

A. Significant Activity Identification

The activities identified in the following table (Table 1) are subject to and regulated by this Title V Operating Permit:

Table 1 – Significant Activity Identification

Emission Unit Number	Description of Emission Unit	Maximum Gross Heat Input or Maximum Power Output or Rating	Maximum Operating Conditions
EU01	Landfill Gas Flare No. 1 (McGill Environmental - Model No. BFT-10) Installed 1989	46.1 MMBtu/hr (input-Higher Heating Value (HHV))	Maximum landfill gas flow rate through each flare is 1495 scfm.
EU02	Landfill Gas Flare No. 2 (LFG Specialities - Model No.CF1020I8) Installed 1995	46.1 MMBtu/hr (input-HHV)	Maximum landfill gas flow rate through each flare is 1495 scfm.
EU03	Landfill Gas Reciprocating Engine No. 1 (Caterpillar Model No. 3516) Installed 1989	9.4 MMBtu/hr (input-HHV)	A) Maximum load equivalent to 720 kW to 880 kW power output B) Fuel/air controller must be operated in order to minimize NOx emissions
EU04	Landfill Gas Reciprocating Engine No. 2 (Caterpillar Model No. 3516)	9.4 MMBtu/hr (input-HHV)	A) Maximum load equivalent to 720 kW to 880 kW power output B) Fuel/air controller must be operated in order to minimize NOx emissions

Table 1 – Significant Activity Identification			
Emission Unit Number	**Description of Emission Unit**	**Maximum Gross Heat Input or Maximum Power Output or Rating**	**Maximum Operating Conditions**
	Installed 1989		
EU05	Landfill Gas Reciprocating Engine No. 3 (Caterpillar Model No. 3516) Installed 1989	9.4 MMBtu/hr (input-HHV)	A) Maximum load equivalent to 720 kW to 880 kW power output B) Fuel/air controller must be operated in order to minimize NOx emissions
EU06	Landfill Gas Reciprocating Engine No. 4 (Caterpillar Model No. 3516) Installed 1992	9.4 MMBtu/hr (input-HHV)	A) Maximum load of power rating ranging from 720 kW to 880 kW B) Fuel/air controller must be operated in order to minimize NOx emissions
EU07	Emergency Generator at Leachate Treatment Plant Installed 1992	368 HP	(A) Operating hours limited to less than 500 hours during any consecutive 12-month period. (B) NOx emissions limited to less than 25 tons/year for all emergency generators combined.
EU08	Solar Centaur Landfill Gas Turbine No. 1[1] Installed 1997	46.2 MMBtu/hr (input-HHV)	A) Maximum landfill gas flow rate through each turbine is 1650 scfm @ 60ºF and 14.7 psia; B) Maximum turbine temperature shall not exceed 1170ºF.
EU09	Solar Centaur Landfill Gas Turbine No. 2 Installed 1997	46.2 MMBtu/hr (input-HHV)	A) Maximum landfill gas flow rate through each turbine is 1650 scfm @ 60ºF and 14.7 psia; B) Maximum turbine temperature shall not exceed 1170ºF.
EU10	Gasoline Storage Tank	500 gallon capacity	The estimated annual throughput shall not equal or exceed 120,000 gallons.
EU11	Spray Painting Operations	NA	A) Total non-fugitive, facility-wide VOC emissions limited to 49.9 tons per year. B) To comply with Env-A 1400, maximum paint consumption of 2,500 gallons/year and 50 gallons/day.
EU12	Degreasing Operations	NA	Total non-fugitive, facility-wide VOC emissions limited to 49.9 tons per year.

[1] The turbines (EU08 and EU09) are considered to be a combustion device pursuant to New Hampshire Code of Administrative Rules. Prior to the turbines, the landfill gas goes through a treatment system where it is filtered, dewatered, and compressed; therefore, the turbines are not considered to be control devices pursuant to 40 CFR 60 Subpart WWW. The turbines are considered to be VOC control devices pursuant to Env-A 1200.

Table 1 – Significant Activity Identification			
Emission Unit Number	**Description of Emission Unit**	**Maximum Gross Heat Input or Maximum Power Output or Rating**	**Maximum Operating Conditions**
EU13	Leachate Treatment Plant Landfill Gas-Fired Boiler	2.23 MMBtu/hr (input-HHV)	
EU14	Fugitive Dust Emission Sources, including vehicular traffic, landfill operations, construction activities, and removal of material from on-site borrow pits	NA	
EU15	Ultra Low Emissions Flare No. 3 (John Zink Company - Model No.ZULE130X40LF) Installed 2002	128.7 MMBtu/hr (input-HHV)	Maximum landfill gas flow rate through this flare is 3900 scfm.
EU16	Portable Flare No. 4 (LFG Specialities, Inc.) Installed 2002	26.4 MMBtu/hr (input -HHV)	A) Maximum landfill gas flow rate through this flare is 800 scfm. B) Flare No. 4 is portable and can be located in the following locations: 1) Within 100 feet of the permitted solid waste boundary of the TLR-II landfill, except within 50 feet on the southwest side of TLR-II; 2) Within 50 feet of the permitted solid waste boundaries of TLR-I and TLR-III landfills, except within 200 feet of the northeast and southeast sides of TLR-I and TLR-II; and 3) Other locations pre-approved by DES.
EU17	Portable Flare No. 5 Installed 2003	39.6 MMBtu/hr (input - HHV)	A) Maximum landfill gas flow rate through this flare is 1200 scfm. B) Flare No. 5 is portable and can be located in the following locations: 4) Within 100 feet of the permitted solid waste boundary of the TLR-II landfill, except within 50 feet on the southwest side of TLR-II; 5) Within 50 feet of the permitted solid waste boundaries of TLR-I and TLR-III landfills, except within 200 feet of the

Table 1 – Significant Activity Identification			
Emission Unit Number	**Description of Emission Unit**	**Maximum Gross Heat Input or Maximum Power Output or Rating**	**Maximum Operating Conditions**
			northeast and southeast sides of TLR-I and TLR-II; 6) Within the vicinity of Flares Nos. 1, 2, or 3; and 7) Other locations pre-approved by DES.
EU18	Portable Emergency Generator (Caterpillar XT125-3304)	141 KVA or 113 KW prime power	A) Operating hours limited to less than 500 hours during any consecutive 12-month period. B) NOx emissions limited to less than 25 tons/year for all emergency generators combined.
TLR-I	Turnkey Landfill - I	NA	Closed landfill.
TLR-II	Turnkey Landfill - II	NA	Closed landfill.
TLR-III	Turnkey Landfill - III	NA	Active landfill.

B. Stack Criteria

The following stacks for the above listed significant devices at this facility shall meet the following criteria in accordance with the state-only modeling requirements specified in Env-A 1400:

Table 2 – Stack Criteria				
Stack Number	**Emission Unit Number**	**Emission Unit Description**	**Minimum Stack Height (Feet) Above Ground Level**	**Maximum Stack Diameter (Feet)**
ST01	EU01	Flare #1	20	0.83
ST02	EU02	Flare #2	24	0.66
ST03	EU03	Engine #1	27.5	0.667
ST04	EU04	Engine #2	27.5	0.667
ST05	EU05	Engine #3	27.5	0.667
ST06	EU06	Engine #4	27.5	0.667
ST08	EU08	Turbine #1	36.3	4.0
ST07	EU09	Turbine #2	36.3	4.0
ST08	EU13	Leachate Treatment Plant Landfill Gas-Fired Boiler	29.3	1.33
ST09	EU15	ULE Flare No. 3	40	12.58
ST10	EU16	Portable Flare No. 4	19	0.5 (inside tip diameter)
ST11	EU11	Spray Painting Operations/Spray Booth	26.5	3.77
ST12	EU17	Portable Flare No. 5	30	0.67

Changes to the state-only requirements pertaining to stack parameters (set forth in this permit), shall be permitted only when an air quality impact analysis which meets the criteria of Env-A 606 is performed either by the facility or the New Hampshire Department of Environmental Services, Air Resources Division (if requested by facility in writing) in accordance with the ADES Policy and Procedure for Air Quality Impact Modeling.≅ All air modeling data shall be kept on file at the facility for review by the DES upon request.

IV. Insignificant Activities Identification

All activities at this facility that meet the criteria identified in Env-A 609.04(d), shall be considered insignificant activities. Emissions from the insignificant activities shall be included in the total facility emissions for the emission-based fee calculation described in Section XXIII. of this Permit.

V. Exempt Activities Identification

All activities identified in Env-A 609.03(c) shall be considered exempt activities and shall not be included in the total facility emissions for the emission based fee calculation described in Section XXIII of this permit.

VI. Pollution Control Equipment Identification

The devices and/or processes identified in Table 3 are considered pollution control equipment or techniques for each identified emissions unit:

Table 3 – Pollution Control Equipment Identification

Pollution Control Equipment Number	Description of Equipment	Emission Unit Number/Stack Number	Minimum Destruction Efficiency[2]
PCE01	Landfill Gas Flare No. 1	EU01/ST01	98% NMOC Reduction
PCE02	Landfill Gas Flare No.2	EU02/ST02	98% NMOC Reduction
PCE03	Landfill Gas Reciprocating Engine No.1	EU03/ST03	98% NMOC Reduction or NMOC outlet concentration less than 20 ppmvd as hexane @ 3% O_2
PCE04	Landfill Gas Reciprocating Engine No.2	EU04/ST04	98% NMOC Reduction or NMOC outlet concentration less than 20 ppmvd as hexane @ 3% O_2
PCE05	Landfill Gas Reciprocating Engine No.3	EU05/ST05	98% NMOC Reduction or NMOC outlet concentration

[2] According to EPA (56 FR 24468), open flares (Flares Nos. 1, 2, 4, and 5) are assumed to have a minimum destruction efficiency of 98 percent-weight when designed and operated pursuant to the requirements of 40 CFR 60.18.

Table 3 – Pollution Control Equipment Identification			
Pollution Control Equipment Number	**Description of Equipment**	**Emission Unit Number/Stack Number**	**Minimum Destruction Efficiency[2]**
			less than 20 ppmvd as hexane @ 3% O_2
PCE06	Landfill Gas Reciprocating Engine No.4	EU06/ST06	98% NMOC Reduction or NMOC outlet concentration less than 20 ppmvd as hexane @ 3% O_2
PCE07	Landfill Gas Turbine No.1[3]	EU08/ST08	At least 81% VOC control efficiency
PCE08	Landfill Gas Turbine No. 2	EU09/ST09	At least 81% VOC control efficiency
PCE09	Landfill Gas Flare No.3	EU15/ST11	98% NMOC Reduction or NMOC outlet concentration less than 20 ppmvd as hexane @ 3% O_2
PCE10	Landfill Gas Flare No. 4	EU16/ST12	98% NMOC Reduction
PCE11	Leachate Treatment Plant Boiler	EU13/ST10	98% NMOC Reduction or NMOC outlet concentration less than 20 ppmvd as hexane @ 3% O_2
PCE12	Landfill Gas Flare No. 5	EU17	98% NMOC Reduction

VII. Alternative Operating Scenarios

No alternative operating scenarios were identified for this Permit.

VIII. Applicable Requirements

A. State-only Enforceable Operational and Emission Limitations

The Permittee shall be subject to the state-only operational and emission limitations identified in Table 4 below.

[3] The turbines (EU08 and EU09) are considered to be a combustion device pursuant to New Hampshire Code of Administrative Rules. Prior to the turbines, the landfill gas goes through a treatment system where it is filtered, dewatered, and compressed; therefore, the turbines are not considered to be control devices pursuant to 40 CFR 60 Subpart WWW. The turbines are considered to be VOC control devices pursuant to Env-A 1200.

Table 4 – State-Only Enforceable Operational and Emission Limitations			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
1.	Env-A 1403	Facility wide	All devices or processes shall comply with Env-A 1400 *(Regulated Toxic Air Pollutants)*.
2.	Env-A 1404.01(d)	Facility wide	Documentation for the demonstration of compliance shall be retained at the facility and shall be made available to DES for inspection upon request.
3.	Env-A 1405.01	Facility wide	A) The owner of a new or modified device or process requiring a permit under this chapter shall submit an application for a temporary permit in accordance with Env-A 607.03. B) Pursuant to RSA 125-I:5,I, the owner shall not operate the device or process until a temporary permit is issued.
4.	Env-A 1406.01	Facility wide	The owner of any device or process that emits an RTAP shall determine compliance with the AAL by using one of the methods provided in Env-A 1406.02, Env-A 1406.03, or Env-A 1406.04. Upon request, the owner of any device or process that emits an RTAP shall provide documentation of compliance with the AAL to DES.
5.	Env-A 1400 and Env-Wm 807.03 Maximum Allowable Concentrations of Toxics in Used Oil	Facility wide	WMNH shall burn specification or off-specification used-oil[4] generated on-site with the following allowable limits: Arsenic* 18 ppm maximum Cadmium* 10 ppm maximum Chromium* 35 ppm maximum Lead* 350 ppm maximum Total Halogens* 1000 ppm maximum PCBs* Less than 2 ppm Flash Point 100 degrees F minimum Sulfur 2.00 percent WMNH shall burn only specification or off-specification used-oil that does not otherwise exhibit any of the hazardous waste characteristics specified in Env-Wm 403. * - dry weight basis
6.	Env-A 1400	EU11	WMNH shall use a maximum of 2,500 gallons of paint/year and 50 gallons paint/day.

B. Federally Enforceable Operational and Emission Limitations

1. The Permittee shall be subject to the emission limitations summarized in Table 5 below for the listed fuel burning devices.

[4] Used oil shall be defined in accordance with Env-Wm 110.01(c).

Table 5 – Summary of Emission Limitations											
Pollutant	EU01 Flare No. 1	EU02 Flare No. 2	EU15 Flare No. 3	EU16 Flare No. 4	EU17 Flare No. 5	EU03 Engine No. 1	EU04 Engine No. 2	EU05 Engine No. 3	EU06 Engine No. 4	EU08 Turbine No. 1	EU09 Turbine No.2
NOx limit	2.9 lb/hr	2.9 lb/hr	2.9 lb/hr; 12.6 tons/consecutive 12 months	1.8 lb/hr; 7.9 tons/consecutive 12 months	2.69 lb/hr; 11.8 tons/consecutive 12 months	3.5 lb/hr and 2.5 gram/ bhp-hr	3.5 lb/hr and 2.5 gram/ bhp-hr	3.5 lb/hr and 2.5 gram/ bhp-hr	3.5 lb/hr and 2.5 gram/ bhp-hr	0.016% by volume @ 15% O_2, dry basis; 55 ppmv @ 15% O_2, dry basis or 0.203 lb/MMBtu; and 6.5 lb/hr	0.016% by volume @ 15% O_2, dry basis; 55 ppmv @ 15% O_2, dry basis or 0.203 lb/MMBtu; and 6.5 lb/hr
NOx limit for multiple devices	107.44 tons/any consecutive 12 month period for flares Nos. 1 & 2, turbines and engines		24.4 tons per consecutive 12 month period for Flares Nos. 3, 4, and 5			107.44 tons/any consecutive 12 month period for flares Nos. 1 & 2, turbines and engines				107.44 tons/any consecutive 12 month period for flares Nos. 1 & 2, turbines and engines	
CO limit	14.2 lb/hr	14.2 lb/hr	6.93 lb/hr; 30.4 tons/consecutive 12 months	9.8 lb/hr; 42.8 tons/consecutive 12 months	14.65 lb/hr; 64.2 tons/consecutive 12 months	7.3 lb/hr	7.3 lb/hr	7.3 lb/hr	7.3 lb/hr	6.3 lb/hr	6.3 lb/hr
CO limit for multiple devices	249.0 ton/any consecutive 12 month period for flares Nos. 1 & 2, turbines, engines and emergency generator (EU07)		NA	NA	NA	249.0 ton/any consecutive 12 month period for flares Nos. 1 & 2, turbines, engines, and emergency generator (EU07)				249.0 ton/any consecutive 12 month period for flares Nos. 1 & 2, turbines, engines and emergency generator (EU07)	
Opacity	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
SO_2 limits	2.9 lb/hr	2.9 lb/hr	1.66 lb/hr; 7.3 tons/consecutive 12 months	0.3 lb/hr; 1.5 tons/consecutive 12 months	0.51 lb/hr; 2.23 tons/consecutive 12 months	NA	NA	NA	NA	3.3 lb/hr; and 0.015% by volume at 15% O_2, dry; and 0.8% sulfur by weight	3.3 lb/hr; and 0.015% by volume at 15% O_2, dry; and 0.8% sulfur by weight
PM_{10}	0.2 lb/hr	0.2 lb/hr	2.32 lb/hr; 10.1	0.1 lb/hr; 0.5	0.17 lb/hr; 0.75	0.30 lb/MM Btu	0.30 lb/MM Btu	0.30 lb/MM Btu	0.30 lb/MM Btu	0.62 lb/hr	0.62 lb/hr

Table 5 – Summary of Emission Limitations											
Pollutant	EU01 Flare No. 1	EU02 Flare No. 2	EU15 Flare No. 3	EU16 Flare No. 4	EU17 Flare No. 5	EU03 Engine No. 1	EU04 Engine No. 2	EU05 Engine No. 3	EU06 Engine No. 4	EU08 Turbine No. 1	EU09 Turbine No.2
			tons/consecutive 12 months	tons/consecutive 12 months	tons/consecutive 12 months						
VOCs (non-fugitive) limit for facility	49.9 tons/any 12 consecutive months										
HCl	NA	NA	0.55 lb/hr; 2.4 tons/consecutive 12 months	0.1 lb/hr; 0.5 tons/consecutive 12 months	0.17 lb/hr; 0.74 tons/consecutive 12 months	NA	NA	NA	NA	NA	NA
HAPs (for entire facility)	9.9 tons/any consecutive 12-months for any individual HAP; 24.9 tons/any consecutive 12-months for all HAPs combined										

2. The Permittee shall be subject to the federally enforceable operational and emission limitations identified in Table 6 below:

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
1.	40 CFR 60.11 Compliance with standards and maintenance requirements	Facility wide	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
2.	40 CFR 60.12 Circumvention	Facility wide	No owner or operator subject to the provisions of 40 CFR 60 Subpart A shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.
3.	40 CFR 60.18(c)(2) Flame presence	EU01, EU02, EU15, EU16, EU17	Flares shall be operated with a flame present at all times.
4.	40 CFR 60.18(c)(3) Flare Net Heating Value and Exit Velocity	EU01, EU02, EU16, EU17	WMNH shall comply with one of the following: A) WMNH shall comply with the following net heating value and exit velocity: (1) Pursuant to 40 CFR 60.18 (c)(3)(ii), Flare Nos. 1,2, and 4, a nonassisted flare, shall combust gas with the net heating value of 7.45 MJ/scm (200 Btu/scf) or greater. The net heating value of the gas being combusted shall be determined by the methods specified in 40 CFR 60.18(f)(3); and. (2) Pursuant to 40 CFR 60.18 (c)(4)(i), Flares Nos. 1,2, and 4 shall be designed and operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18(f)(4), that is less than 18.3 m/sec (60 ft/sec), except as provided in 40 CFR 60.18 (c)(4)(ii) and (c)(4)(iii). Pursuant to 40 CFR 60.18 (c)(4)(ii), Flare Nos. 1,2, and 4 shall be designed for and operated with an exit velocity, as determined by the methods specified in 40 CFR 60.18 (f)(4), that is equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf). Pursuant to 40 CFR 60.18 (c)(4)(iii), Flare Nos. 1,2, and 4 shall be designed for and operated with an exit velocity, as determined by the methods specified in 40 CFR

[5] On October 31, 2002, DES promulgated new Env-A 1211 rules to prevent the expiration of the NOx RACT requirements. On December 31, 2002, DES readopted Env-A 1204, streamlining the VOC RACT requirements. Until such time that the new Env-A 1204 and 1211 rules are approved and adopted into the State Implementation Plan (SIP) by EPA, all Title V permits will be incorporating the old Env-A 1204 and 1211 rules, unless the new rules are more stringent. These requirements shall fall under the Permit Shield provisions as contained in Section XIII of this permit.

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
			60.18 (f)(4), that is less than the velocity, Vmax, as determined by the method specified in 40 CFR 60.18(f)(5), and less than 122 m/sec (400 ft/sec).
5.	40 CFR 60.18(f)(5) Maximum Permitted Velocity	EU01, EU02, EU16, EU17	The maximum permitted velocity, Vmax, for flares complying with 40 CFR 60.18 (c)(4)(iii) shall be determined by the following equation: $Log_{10}(V\,\max) = \frac{(HT + 28.8)}{31.7}$ Vmax=Maximum permitted velocity, M/sec 28.8=Constant 31.7=Constant HT=The net heating value as determined in 40 CFR 60.18 (f)(3) and Condition VIII. E., Table 7.
6.	40 CFR 60.332(a)(2) Subpart GG NOx Emission Limitations[6]	EU08, EU09	The oxides of nitrogen (NOx) emissions from the turbines shall not exceed the standard specified in 40 CFR 60.332(a)(2): STD= [(0.0150)(14.4) / Y] +F where: STD = allowable NOx emissions (percent by volume at 15 percent oxygen, dry basis) = **0.016%** Y = manufacturer=s rated heat rate at manufacturer=s rated peak load = 13.36 kilojoules/watt-hour F = NOx emission allowance for fuel-bound nitrogen = 0
7.	40 CFR 60.333 Sulfur dioxide[7]	EU08, EU09	WMNH shall not discharge into the atmosphere any gases, which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen, dry basis.
8.	40 CFR 60.333 Sulfur in Fuel	EU08, EU09	WMNH shall not burn any fuel containing sulfur in excess of 0.8 percent by weight in the stationary gas turbines.
9.	40 CFR 60.752 Subpart WWW NSPS for MSW Landfills Emission Standards	TLR-I, TLR-II, TLR-III	A) WMNH shall install a collection and control system that captures the gas generated within the landfill. B) An active collection system shall be designed as follows: (1) Handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system; (2) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more, if active or 2 years or more if closed or at final grade; (3) Collect gas at a sufficient extraction rate; and (4) Minimize off-site migration of subsurface gas. C) All of the collected gas shall be routed to the control system. Pursuant to 40 CFR 60.752 (b)(iii), the control system shall consist of the following:

[6] The NOx emission limitation in the State operating permit of 6.5 lb/hr (which is equivalent to 0.139 lb/MMBtu) is the most stringent requirement. The NOx RACT requirement of Env-A 1211.06(c) for turbines (55 ppmvd @15% or 0.203 lb/MMBtu) is equivalent to 9.4 lb/hr. The NSPS NOx requirement of 0.016% NOx is equivalent to 160 ppmvd.

[7] The SO_2 emission limitation in the State operating permit of 3.3 lb/hr is the most stringent requirement. The NSPS SO_2 requirement of 0.015% NOx is equivalent to 150 ppmvd or 0.82 lb/MMBtu or 37.9 lb/hr.

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
			(1) An open flare designed and operated in accordance with 40 CFR 60.18; (2) A control system designed and operated to reduce non-methane organic compounds (NMOC) by 98 weight percent or when an enclosed combustion device is used for control to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The reduction efficiency or ppmv shall be established by an initial performance test; or (3) A treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the control requirements of 40 CFR 60.752(b)(iii)(A) and (B) as listed above in Condition C.1. and C.2.
10.	40 CFR 60.752(b)(2)(iii)(B)(1) and (2) Operating Parameters	EU03, EU04, EU05, EU06, EU08, EU09, EU15, EU13	For the control equipment used pursuant to 40 CFR 60.752(b)(2)(iii)(B), WMNH shall meet the following operating parameters: A) For boilers, the landfill gas stream shall be introduced into the flame zone. B) WMNH shall operate the control equipment within the parameter ranges established during the initial or most recent performance test. The parameters to be monitored include temperature and landfill gas flow.
11.	40 CFR 60.753 Operational Standards for Control System	TLR-I, TLR-II, TLR-III	WMNH shall comply with the following conditions: A) Operate the collection system such that the gas is collected from each area, cell or groups of cells in the MSW landfill in which solid waste has been in place for 5 years or more if active, or 2 years or more if closed or at final grade; B) Operate the collection system with negative pressure at each well-head except under the following conditions: (1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. (2) Use of a geomembrane or synthetic cover. (3) A decommissioned well. C) Operate each interior wellhead in the collection system with a landfill gas temperature less than 55EC and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent; D) Operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill; E) Operate the system such that all collected gases are vented to a control system designed and operated according to 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to the venting of the gas to the atmosphere shall be closed within 1 hour; F) Operate the control or treatment system at all times when the collected gas is routed to the system; and G) If monitoring demonstrates that the operational requirements in

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
			(B), (C), and (D) above are not met, corrective actions shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 cFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section.
12.	40 CFR 60.755(e) Start-up, Shutdown, Malfunction	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16, EU17, TLR-I, TLR-II, TLR-III	The provisions of 40 CFR Part 60 Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices.
13.	40 CFR 60.759 (a) Specifications for siting active collection systems	TLR-III	WMNH shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the procedures specified in 40 CFR 60.759 (a) including, but not limited to the following: A) The collection devices within the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. B) The sufficient density of gas collection devices determined above shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior. C) The placement of gas collection devices determined above shall control all gas producing areas, except the following: (1) Any segregated area of asbestos or non-degradable material may be excluded if documented. (2) Any nonproductive area of the landfill provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. Emissions from each section shall be computed using the equation specified in 40 CFR 60.759 (a).
14.	40 CFR 60.759 (b) Specifications for constructing active collection systems	TLR-III	WMNH shall construct the gas collection devices using the equipment or procedures specified in 40 CFR 60.759(b).
15.	40 CFR 60.759 (c) Specifications for active collection systems	TLR-III	WMNH shall convey the landfill gas to a control system through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures: A) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures listed below for new collection systems shall be used. B) For new collection systems, the maximum flow rate shall be in accordance with 40 CFR 60.755(a)(1).
16.	40 CFR 61.151 Standards for inactive	TLR-I, TLR-	For any inactive waste disposal site that received deposits of asbestos-containing waste material, WMNH shall conduct the following:

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
	waste disposal sites for asbestos mills & manufacturing & fabricating operations	II	A) Cover the asbestos-containing waste material with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material, and grow and maintain a cover of vegetation on the area adequate to prevent exposure of the asbestos-containing waste material; or B) Cover the asbestos-containing waste material with at least 60 centimeters (2 feet) of compacted nonasbestos-containing material, and maintain it to prevent exposure of the asbestos-containing waste; or C) Unless a natural barrier adequately deters access by the general public, install and maintain warning signs and fencing. The warning signs shall be displayed at all entrances at intervals of 100 m (328 ft) or less along the property line or along the perimeter of the sections where asbestos-containing waste material was deposited and shall meet the specifications of 40 CFR 61.151 (b). The perimeter shall be fenced in a manner adequate to deter access by the general public. D) Notify EPA and DES in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material. The notification shall include the following: (1) Scheduled startup and completion dates, (2) The reason for disturbing the waste, (3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material, (4) Location of any temporary storage site and the final disposal site. E) Within 60 days of a site becoming inactive, record a notation on the deed to the facility property, in accordance with state law, and on any other instrument that would normally be examined during a title search that the land has been used for the disposal of asbestos-containing materials; the survey plot and a record of location and quantity of asbestos-containing waste disposed has been filed with EPA; and the site is subject to 40 CFR Part 61 Subpart M.
17.	40 CFR 61.154 (a) Visible emissions	TLR-III	For an active waste disposal site that receives asbestos-containing material, WMNH shall meet the following requirements: A) No visible emissions to the outside air; or B) At the end of each operating day or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste deposited during the operating day or within the previous 24-hour period shall be covered with at least 15 centimeters (6 inches) of compacted nonasbestos containing material or be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion; or C) Use an alternative control method that has received written approval from EPA.
18.	40 CFR 61.154 (b) Barriers	TLR-III	For an active waste disposal site that receives asbestos-containing material, WMNH shall meet the following requirements: A) Unless a natural barrier adequately deters access by the general

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
			public, either warning signs and fencing must be installed at all entrances and at intervals of 100 m (300 ft.) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs must be posted in such a manner and location that a person can easily read the legend, and conform to the requirements established in 40 CFR 61.154 (b). The perimeter shall be fenced in a manner adequate to deter access by the general public.
19.	40 CFR 82 Subpart F Stratospheric Ozone Protection	Facility wide	Any person servicing, maintaining, or repairing appliances (except for motor vehicle air conditioners) which contain and use class I or class II substance as a refrigerant and which are used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer are subject to the requirements of 40 CFR 82 Subpart F (Recycling and Emission Reduction): A) Owners of equipment containing more than 50 pounds of refrigerants are required to repair substantial leaks. The annual leak rate cannot exceed 35 percent per 12-month period for industrial process and commercial refrigeration equipment. The annual leak rate cannot exceed 15 percent of charge per 12-month period for comfort cooling chillers and all other equipment containing more than 50 pounds of refrigerants, except for industrial process and commercial refrigeration equipment. B) Technicians servicing appliances that contain 50 or more pounds of refrigerant must provide the owner with an invoice that indicates the amount of refrigerant added to the appliance. In addition, technicians must be certified and keep a copy of their proof of certification at their place of business. C) Owners of air-conditioning and refrigeration equipment with more than 50 pounds of refrigerant must keep records of the quantity of refrigerant added to their equipment during servicing and maintenance procedures and the date and type of service rendered to the equipment.
20.	RSA 125-C:6, RSA 125-C:11 and Env-A 606.04. National Ambient Air Quality Standards	Facility wide	The facility shall comply with the national ambient air quality standards and the applicable requirements of RSA 125-C:6, RSA 125-C:11, and Env-A 606.04. These sections include, but are not limited to, descriptions of the powers and duties of the commissioner, and requirements for adherence to permit application procedures and air pollutant dispersion modeling impact analyses.
21.	Env-A 1002 Fugitive Dust	EU14	In order to prevent, abate, and control fugitive dust emissions, WMNH shall take precautions when engaged in activities that emit fugitive dust. Such activities include, but are not limited to, construction activities, maintenance activities, demolition activities, and bulk hauling activities,. Precautions taken to control fugitive dust include, but are not limited to, wetting, covering, shielding, or vacuuming.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
22.	Env-A 1204.05 (old) and Env-A 1204.02(d) (new) and Env-A 1204.48 (5) and (6) (new) VOC RACT	Facility wide	VOC emissions resulting from minor core and non-core processes and miscellaneous combustion devices are exempt from the VOC RACT requirements.
23.	Env-A 1204.15 Coating of Misc. Metal Parts and Products - VOC RACT	EU11	WMNH shall comply with the coating emission limitation of 3.5 lb VOC per gallon of coating, as applied, excluding water and exempt compounds, for the refuse container spray painting operations.
24.	Env-A 1204.27 (old) and Env-A 1204.49 (new) Misc. & Multicategory Stationary VOC Sources - VOC RACT	TLR-I, TLR-II, TLR-III	Landfill gas emissions shall be collected and combusted in the permitted control devices (4 flares, 4 internal combustion engines, 2 turbines, and leachate treatment plant boiler). Combined capture and control efficiency of VOCs resulting from landfill gas emissions shall be 81% or greater, as determined by dividing the difference between the uncontrolled emissions and the controlled emissions by the uncontrolled emissions.
25.	State Permit to Operate No. PO-BP-2727 VOC Emission Limitation	Facility wide	WMNH shall limit all non-fugitive VOC emissions at the facility to 49.9 tons per year.
26.	Env-A 1205.05(g) Gasoline Tank Submerged Fill	EU10	Gasoline storage tanks with a capacity equal to or greater than 250 gallons shall be equipped with and filled via a submerged fill pipe.
27.	Env-A 1205.07 Operational Requirements for Gasoline Tank	EU10	A) WMNH shall not deliberately or negligently mishandle gasoline such that it would result in evaporation into the atmosphere, including spilling, discarding into a sewer, or storing in an open container. B) Where a person is gauging or inspecting a storage tank, it shall not be performed under the following conditions: When loading or unloading operations are in progress; or When such a tank is left open for more than 5 minutes.
28.	Env-A 1211.06(c) NOx RACT for Turbines[8]	EU08, EU09	Each combustion turbine shall be limited at all times to the hourly average NOx RACT emission limit of 55 parts per million by volume dry basis, corrected to 15% oxygen, or 0.203 lb NOx/MMBtu.
29.	Env-A 1211.07(c)(2)a. NOx RACT for Engines	EU03, EU04, EU05, EU06	Each stationary internal combustion engine shall be limited at all times to the hourly average NOx RACT emission limit of 2.5 grams per bhp-hr.

[8] The NOx emission limitation in the State operating permit of 6.5 lb/hr (which is equivalent to 0.139 lb/MMBtu) is the most stringent requirement. The NOx RACT requirement of Env-A 1211.06(c) for turbines (55 ppmvd @15% or 0.203 lb/MMBtu) is equivalent to 9.4 lb/hr. The NSPS NOx requirement of 0.016% NOx is equivalent to 160 ppmvd.

Table 6 – Federally Enforceable Operational and Emission Limitations[5]			
Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
30.	Env-A 1211.02 (j) (old) and Env-A 1211.01(j) (new) Emergency Generators NOx RACT Exemption	EU07, EU18	WMNH shall limit the hours of operation of the emergency generator to less than 500 hours per year during any consecutive 12 month period, and the combined theoretical potential emissions of NOx from all emergency generators are limited to less than 25 tons for any consecutive 12-month period.
31.	Env-A 1211.11(e) NOx RACT for Emergency Generators	EU07, EU18	A) If the emergency generators do not meet the requirements of Env-A 1211.01(j), then the emergency generators must comply with Env-A 1211.11 B) If the hours of operation of the emergency generator exceed 500 hours per any consecutive 12 month period, the emission unit shall be subject to an hourly average NOx RACT emission limit of 2.5 grams per bhp-hr for lean burn gas-fired internal combustion engines pursuant to Env-A 1211.07(c)(2)(a) and 8.0 grams per bhp-hr, or 2.44 lb. per million Btu for lean burn oil-fired internal combustion engines pursuant to Env-A 1211.07(c)(2)(b).
32.	Env-A 1211.14 NOx RACT-Miscellaneous Sources	EU01, EU02, EU15, EU16, EU17	WMNH shall comply with the NOx RACT Order No. ARD-01-001 issued by DES and listed below under Condition VIII. C.
33.	Env-A 1604.01(a), (e), and (h) Sulfur content limitations for liquid fuels and State Permit to Operate No. PO-B-1837	EU07, EU18, and Facility wide	A) Diesel fuel for the emergency generator shall contain a maximum of 0.15% sulfur by weight. B) No. 2 fuel oil shall contain a maximum of 0.40% sulfur by weight. C) Kerosene-1 oil shall contain a maximum of 0.04% sulfur by weight. D) Used oil shall contain a maximum of 2.00 % sulfur by weight.
34	40 CFR 52[9] Sulfur content for gaseous fuels	EU01, EU02, EU13, EU15, EU16, EU17, and Facility wide	Gaseous fuel shall contain no more than 5 grains of sulfur per 100 cubic feet of gas.
35.	Env-A 504.01(d) and1807.01, 40 CFR 61 Subpart M Asbestos HAP	TLR-I, TLR-II, TLR-III	WMNH shall meet the requirements listed under 40 CFR 61 Subpart M for active and inactive disposal sites with asbestos-containing materials

[9] 40 CFR 52 contains the New Hampshire rules that have been approved by EPA and adopted as part of the State Implementation Plan (SIP). Env-A 402.03, effective on December 27, 1990, contained the sulfur limit for gaseous fuels was adopted as part of the SIP on September 14, 1992. Env-A 402.03 and is still considered to be federally enforceable until such time as the SIP is amended and approved by the EPA. This requirement will expire at such time that Env-A 1605, the amended rule containing the sulfur content limit for gaseous fuels, is approved by EPA and adopted as part of the SIP.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
36.	Env-A 2003.02 and 40 CFR 60.18(c)(1) Visible emission standards for fuel-burning devices	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08, EU09, EU13, EU15, EU16, EU17, EU18, and Facility wide	A) WMNH shall not cause or allow average opacity from fuel burning devices installed after May 13, 1970 in excess of 20 percent for any continuous 6-minute period. B) Flares shall be designed and operated with no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.
37.	Env-A 2003.04(c) Activities exempt from visible emission standards	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08, EU09, EU13, EU15, EU16, EU17, EU18 and Facility wide	The average opacity for these devices shall be allowed to be in excess of the 20 percent opacity standard specified in Env-A 2003.02 for one period of 6 continuous minutes in any 60 minute period during startup, shutdown, malfunction, and soot blowing, grate cleaning, and cleaning of fires.
38.	Env-A 2003.08(c)(1) Particulate emission standard for fuel-burning devices less than 100 MMBtu/hr	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU07, EU09, EU13, EU16, EU17, EU18, and Facility wide	WMNH shall not cause or allow emissions of particulate matter from fuel burning devices installed on or after January 1, 1985, in excess of 0.30 lb/MMBtu.
39.	Env-A 2003.08(c)(2) Particulate emission standard for fuel-burning devices equal to or greater than 100 MMBtu/hr but less than 250 MMBtu/hr	EU15	WMNH shall not cause or allow emissions of particulate matter from fuel burning devices installed on or after January 1, 1985, in excess of 0.15 lb/MMBtu.
40.	Env-A 2107 Visible Emission Standards for Non-Fuel Burning Devices	Facility wide	WMNH shall not cause or allow visible fugitive emissions or visible stack emissions from any non-fuel burning devices to exceed an average of 20 percent opacity for any continuous 6-minute period.
41.	Env-A 2803 Emission Standards for sand and gravel sources	EU14	A) Visible fugitive emissions or visible stack emissions from sand and gravel sources shall not exceed an average of 20 percent opacity for any continuous 6-minute period at crushers, transfer points, and screens. B) WMNH shall not cause or allow a sand and gravel source to operate without a fugitive emission control system operating and maintained to control the emission of particulate matter.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
42.	Env-A 2806 Fugitive dust control within plant property	EU14	A) Dust emissions caused by vehicular movement over access roads to, from, and within the plant property shall be controlled by paving or wetting the roadway. B) Dust emissions from stockpiling shall be controlled by wet suppression, windbreaks, enclosures, or soil stabilization.
43.	Env-A 2807 Transport of scatterable material	Facility wide	WMNH shall not cause or allow the transport of scatterable material on any public way unless said material is covered to prevent scattering or eroding.
44.	State Permits to Operate Nos. PO-B-1927 and PO-BP-2545 NOx Emission Limitation	EU01, EU02,	WMNH shall limit the NOx emissions at Flares Nos 1, 2, and 3 to 2.9 lb/hr for each flare.
45.	State Permits to Operate Nos. PO-B-1927 and PO-BP-2545 CO Emission Limitation	EU01, EU02	WMNH shall limit the CO emissions at each flare to 14.2 lb/hr.
46.	State Permits to Operate Nos. PO-B-1927 and PO-BP-2545 SO_2 Emission Limitation	EU01, EU02	WMNH shall limit the SO_2 emissions at each flare to 2.9 lb/hr.
47.	State Permits to Operate Nos. PO-B-1927 and PO-BP-2545 PM_{10} Emission Limitation	EU01, EU02	WMNH sh all limit the PM_{10} emissions at each flare to 0.2 lb/hr.
48.	State Permits to Operate Nos. PO-B-1927 and PO-BP-2545 VOC Emission Limitation	EU01, EU02	WMNH shall limit the VOC emissions at each flare to 0.4 lb/hr.
49.	State Permits to Operate Nos. PO-B-1821, PO-B-1822, PO-B-1823 and PO-B-1824 NOx Emission Limitation	EU03, EU04, EU05, EU06	WMNH shall limit the NOx emissions at each engine to 3.5 lb/hr.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
50.	State Permits to Operate Nos. PO-B-1821, PO-B-1822, PO-B-1823 and PO-B-1824 CO Emission Limitation	EU03, EU04, EU05, EU06	WMNH shall limit the CO emissions at each engine to 7.3 lb/hr.
51.	State Permits to Operate Nos. PO-B-2010 and PO-B-2001 NOx Emission Limitation[10]	EU08, EU09	WMNH shall limit the NOx emissions at each turbine to 6.5 lb/hr.
52.	State Permits to Operate Nos. PO-B-2010 and PO-B-2001 CO Emission Limitation	EU08, EU09	WMNH shall limit the CO emissions at each turbine to 6.3 lb/hr.
53.	State Permits to Operate Nos. PO-B-2010 and PO-B-2001 SO_2 Emission Limitation[11]	EU08, EU09	WMNH shall limit the SO_2 emissions at each turbine to 3.3 lb/hr.
54.	State Permits to Operate Nos. PO-B-2010 and PO-B-2001 PM_{10} Emission Limitation	EU08, EU09	WMNH shall limit the PM_{10} emissions at each turbine to 0.62 lb/hr.
55.	State Permits to Operate Nos. PO-B-2010 and PO-B-2001 VOC Emission Limitation	EU08, EU09	WMNH shall limit the VOC emissions at each turbine to 0.4 lb/hr.

[10] The NOx emission limitation in the State operating permit of 6.5 lb/hr (which is equivalent to 0.139 lb/MMBtu) is the most stringent requirement. The NOx RACT requirement of Env-A 1211.06(c) for turbines (55 ppmvd @15% or 0.203 lb/MMBtu) is equivalent to 9.4 lb/hr. The NSPS NOx requirement of 0.016% NOx is equivalent to 160 ppmvd.

[11] The SO_2 emission limitation in the State operating permit of 3.3 lb/hr is the most stringent requirement. The NSPS SO_2 requirement of 0.015% NOx is equivalent to 150 ppmvd or 0.82 lb/MMBtu or 37.9 lb/hr

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
56.	State Permits to Operate Nos. PO-B-1927, PO-BP-2545, PO-B-1821, PO-B-1822, PO-B-1823, PO-B-1824 PO-B-2010, PO-B-2001, and PO-B-1837 CO Emission Limitation for Flares Nos. 1 and 2, engines, turbines, and emergency generator	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08, EU09	WMNH shall limit the CO emissions at the Flares Nos. 1 and 2, engines, turbines, and emergency generator at the leachate treatment plant to 249.0 tons/any consecutive 12 months.
57.	State Permits to Operate Nos. PO-B-1927, PO-BP-2545, PO-B-1821, PO-B-1822, PO-B-1823, PO-B-1824 PO-B-2010, and PO-B-2001 NOx Emission Limitation for Flares Nos. 1 and 2, engines, and turbines	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09	WMNH shall limit the NOx emissions at the Flares Nos. 1 and 2, engines, and turbines to 107.44 tons/any consecutive 12 months.
58.	Temporary Permit No. TP-B-0482 NOx Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the NOx emissions at ULE Flare No. 3 to 2.9 lb/hr and 12.6 tons/any consecutive 12 months.
59.	Temporary Permit No. TP-B-0482 SO_2 Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the SO_2 emissions at ULE Flare No. 3 to 1.66 lb/hr and 7.3 tons/any consecutive 12 months.
60.	Temporary Permit No. TP-B-0482 CO Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the CO emissions at ULE Flare No. 3 to 6.93 lb/hr and 30.4 tons/any consecutive 12 months.
61.	Temporary Permit No. TP-B-0482 HCl Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the HCl emissions at ULE Flare No. 3 to 0.55 lb/hr and 2.4 tons/any consecutive 12 months.
62.	Temporary Permit No. TP-B-0482 PM_{10} Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the PM_{10} emissions at ULE Flare No. 3 to 2.32 lb/hr and 10.1 tons/any consecutive 12 months.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
63.	Temporary Permit No. TP-B-0482 NMOC Emission Limitation for ULE Flare No. 3	EU15	WMNH shall limit the NMOC emissions at ULE Flare No. 3 to 0.3 lb/hr and 1.2 tons/any consecutive 12 months.
64.	Temporary Permit No. TP-B-0487 NOx Emission Limitation for Portable Flare No. 4	EU16	WMNH shall limit the NOx emissions at Portable Flare No. 4 to 1.8 lb/hr and 7.9 tons/any consecutive 12 months.
65.	Temporary Permit No. TP-B-0487 SO_2 Emission Limitation for Portable Flare No. 4	EU16	WMNH shall limit the SO_2 emissions at Portable Flare No. 4 to 0.3 lb/hr and 1.5 tons/any consecutive 12 months.
66.	Temporary Permit No. TP-B-0487 CO Emission Limitation for Portable Flare No. 4	EU16	WMNH shall limit the CO emissions at Portable Flare No. 4 to 9.8 lb/hr and 42.8 tons/any consecutive 12 months.
67.	Temporary Permit No. TP-B-0487 HCl Emission Limitation for Portable Flare No. 4	EU16	WMNH shall limit the HCl emissions at Portable Flare No. 4 to 0.1 lb/hr and 0.5 tons/any consecutive 12 months.
68.	Temporary Permit No. TP-B-0487 PM_{10} Emission Limitation for Portable Flare No. 4	EU16	WMNH shall limit the PM_{10} emissions at Portable Flare No. 4 to 0.1 lb/hr and 0.5 tons/any consecutive 12 months.
69.	Temporary Permit No. TP-B-XXXX Flares Nos. 3, 4, and 5 Operational Limitations	EU15, EU16, EU17	Only two of the following flares may operate at any one time: A) Flare No. 3 (EU15) B) Flare No. 4 (EU16) C) Flare No. 5 (EU17)
70.	Temporary Permit No. TP-B-XXXX	EU15, EU16, EU17	The NOx emissions from the operation of Flare Nos. 3, 4, and 5 combined shall not exceed 24.4 tons per consecutive 12-month period.[12]
71.	Temporary Permit No. TP-B-XXXX NOx Emission Limitation for Portable Flare No. 5	EU17	WMNH shall limit the NOx emissions at Portable Flare No. 5 to 2.69 lb/hr and 11.8 tons/any consecutive 12 months.

[12] New Source Review (NSR) provisions are not applicable because WMNH was able to net out of NSR for the contemporaneous period, defined as the calendar years 1999 and 2003 for NOx emissions. Flare No. 5 consumes 11.8 tpy of NOx emissions based upon potential emissions of the 25.0 tpy allowed before NSR is triggered. Flares Nos. 3, 4, and 5 consume 24.4 tpy of NOx emissions based upon the potential emissions of the 25.0 tpy allowed before NSR is triggered.

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Item #	**Regulatory Cite**	**Applicable Emission Unit**	**Applicable Requirement**
72.	Temporary Permit No. TP-B-XXXX SO_2 Emission Limitation for Portable Flare No. 5	EU17	WMNH shall limit the SO_2 emissions at Portable Flare No. 5 to 0.51 lb/hr and 2.23 tons/any consecutive 12 months. draft
73.	Temporary Permit No. TP-B-XXXX CO Emission Limitation for Portable Flare No. 5	EU17	WMNH shall limit the CO emissions at Portable Flare No. 5 to 14.65 lb/hr and 64.2 tons/any consecutive 12 months.
74.	Temporary Permit No. TP-B-XXXX HCl Emission Limitation for Portable Flare No. 5	EU17	WMNH shall limit the HCl emissions at Portable Flare No. 5 to 0.17 lb/hr and 0.74 tons/any consecutive 12 months.
75.	Temporary Permit No. TP-B-XXX PM_{10} Emission Limitation for Portable Flare No. 5	EU17	WMNH shall limit the PM_{10} emissions at Portable Flare No. 5 to 0.17 lb/hr and 0.75 tons/any consecutive 12 months.
76.	Env-A 604.02 Emission Limitation to Ensure Minor HAP Source Status	Facility wide	WMNH shall limit HAP emissions to 9.9 tons/any consecutive 12-month period for any individual HAP and 24.9 tons/any consecutive 12-month period for all HAPs combined.
77.	40 CFR 68 and 1990 CAA Section 112(r)(1) Accidental release program requirements	Facility wide	WMNH maintains no quantities of high risk regulated substances above the threshold quantities established by the EPA under 40 CFR Part 68.130. Administrative controls will be established in order to ensure that inventories of regulated substances are maintained below the specified threshold quantities. The facility is subject to the Purpose and General Duty clause of the 1990 Clean Air Act, Section 112(r)(1). General Duty includes the following responsibilities: (1) Identify potential hazards which may result from such releases using appropriate hazard assessment techniques; (2) Design and maintain a safe facility; (3) Take steps necessary to prevent releases; and (4) Minimize the consequences of accidental releases which do occur. If, in the future, WMNH wishes to store quantities of high risk regulated substances above the threshold levels, a risk management plan shall be submitted to the EPA and DES in a timely manner. This plan shall include the information listed in 40 CFR 68, Subpart E.
78.	40 CFR 63 Subpart AAAA	Facility wide	WMNH shall comply with the requirements of 40 CFR 63 Subpart AAAA.

C. NOx RACT Requirements

The Permittee is subject to the NOx RACT emission limits and restrictions as contained in the NOx RACT Order ARD-01-001 and Section VIII.C. of this Permit. Emission limits and restrictions contained in Sections VIII.C.1. through VIII.C.9. are federally enforceable.

1. In accordance with Env-A 1211.14, the Permittee is subject to the following NOx RACT requirements set forth in Section VIII.C.2. through VIII.C.8.
2. Comply with a 0.068 lb NOx/MMBtu performance standard for each of the existing open flares—Flare Nos. 1, 2, 4, and 5—and for any future open flares.
3. Comply with a 0.025 lb NOx/MMBtu performance standard for the enclosed ULE flare—Flare No. 3.
4. Operate and maintain Flare Nos. 1, 2, 3, 4, and 5, and any future open flares according to manufacturer's specifications.
5. Maintain at the facility and make available for review by DES and/or EPA upon request a copy of the manufacturer's specifications for each of the flares.
6. Maintain records of any manufacturer-specified maintenance conducted on the flares.
7. Comply with the record keeping and reporting requirements of PART Env-A 900.

D. Emission Reductions Trading Requirements

The Permittee did not request emissions reductions trading in its operating permit application. To date, DES has not included any permit terms authorizing emissions trading in this permit. All emission reductions trading, must be authorized under the applicable requirements of either Env-A 3000 (the "Emissions Reductions Credits (or ERCs) Trading Program") or Env-A 3100 (the "Discrete Emissions Reductions (or DERs) Trading Program") and 42 U.S.C. §7401 et seq. (The "Act"), and must be provided for in this Permit.

E. Monitoring/Testing Requirements

1. The Permittee is subject to the monitoring/testing requirements as contained in Table 7 below:

Table 7 – Monitoring/Testing Requirements[13]

Item #	Device	Parameter	Method of Compliance	Frequency of Method	Regulatory Cite
1.	EU03, EU04, EU05, EU06, EU08, EU09, EU15	NOx	Periodic Monitoring for NOx RACT: WMNH shall conduct period stack testing, no less frequently than once every 3 years, to demonstrate compliance with NOx RACT. The first test shall occur no later than 3 years from the date of the initial compliance stack test.	Every 3 years	Env-A 1211.21(b)
2.	EU07, EU18	Sulfur Content of Liquid Fuel (diesel fuel, No. 2 fuel oil, and kerosene)	Sulfur Content Monitoring: Fuel delivery tickets, other documentation from the fuel supplier, or testing in accordance with appropriate ASTM test methods that certify the weight-percent of sulfur for each delivery of the liquid fuel.	After each delivery of fuel	Env-A 809.01 (old) and Env-A 806.02 (new) and State Permit to Operate No.

[13] On October 31, 2002, DES promulgated new Env-A 800 rules, streamlining the testing and monitoring requirements. Until such time that the new Env-A 800 rules are approved and adopted into the State Implementation Plan (SIP) by EPA, all Title V permits will be incorporating the old Env-A 800 rules, unless the new Env-A 800 rules are more stringent. These monitoring requirements shall fall under the Permit Shield provisions as contained in Section XIII of this permit.

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
					PO-B-1837
3.	EU01, EU02, EU13, EU15, EU16, Facility wide	Sulfur Content of Gaseous Fuel (propane)	Sulfur Content: Documentation from fuel supplier or conduct testing to determine the sulfur content of gaseous fuels.	Upon request by DES or EPA	Env-A 809.02 (old) and 806.03 (new)
4.	Facility wide	Used Oil Specifications	Testing for Used Oil Specifications: Testing in accordance with appropriate ASTM methods to determine compliance with the used oil specification limitation and sulfur content limitations.	Annually prior to the heating season or at the latest by November 1st	Env-A 809.02 (old), Env-A 806.02 (new) & Env-Wm 807.05
5.	EU03, EU04, EU05, EU06, EU08, EU09, EU13, Facility wide	Opacity	Opacity Measurements: WMNH shall conduct opacity measurements following the procedures set forth in 40 CFR 60 Appendix A, Method 9, *Visual Determination of the Opacity of Emissions from Stationary Sources.* The measurements shall be taken over 60 minutes during normal operations of the device.	Upon request by DES or EPA or as determined necessary by WMNH	40 CFR 60.11
6.	EU01, EU02, EU15, EU16	Opacity	Opacity Measurements: WMNH shall use EPA Method 22 to determine compliance with the visible emission provision. The observation period is 2 hours and shall be used according to Method 22	Upon request by DES or EPA or as determined necessary by WMNH	40 CFR 60.18(f)(1)
7.	EU03, EU04, EU05, EU06, EU08, EU09, EU15, EU13	Temperature	Temperature Monitoring: WMNH shall calibrate, maintain, and operate a temperature monitoring device equipped with a continuous recording and having a minimum accuracy of ∀1 percent of the temperature being measured expressed in degrees Celsius or ∀5 EC, whichever is greater.	Continuously	40 CFR 60.756 (b)(1)
8.	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU15, EU16, EU13, EU17	Landfill gas flow rate	Gas Flow Rate Measurements: WMNH shall install, calibrate, and maintain a measuring device that shall record the landfill gas flow rate to the control device. Each control device shall not be equipped with a bypass valve.	Monthly	Env-A 906.01 (new)
9.	TLR-I, TLR-II,	Pressure, temperature, and	Pressure, Temperature, and Nitrogen or Oxygen Monitoring:	Monthly	40 CFR 60.753 (c),

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
	TLR-III	nitrogen or oxygen	(A) WMNH shall install a sampling port and a thermometer or other temperature measuring device, or an access port for temperature measurements at each wellhead. (B) WMNH shall measure and/or monitor the following parameters: (1) Measure the gauge pressure in the gas collection header for the purpose of identifying whether the gas collection system flow rate is sufficient. If a positive pressure exists for reason other than a fire or increased well temperature, use of a geomembrane or synthetic cover or a decommissioned well, corrective action shall be taken according to Condition (C). (2) Monitor nitrogen or oxygen concentrations in the landfill gas for the purpose of identifying whether excess air infiltration into the landfill is occurring. The nitrogen level shall be determined using Method 3C. The oxygen level shall be determined using Method 3A or 3C, except for the following: a. The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; b. A data recorder is not required; c. Only two calibration gases are required, a zero and span and ambient air my be used as the span; d. A calibration error check is not required; e. The allowable sample bias, zero drift, and calibration drift are ±10 percent. (3) Monitor temperature of the landfill gas for the purpose of identifying whether excess air infiltration into the landfill is occurring. (C) If any of the parameters in Conditions (B) are not achieved, corrective action shall be taken within 5 calendar days. If the standard cannot be achieved within 15		60.755 (a)(3), (4), (5) and 60.756 (a)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
			calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. WMNH is not required to expand the system during the first 180 days after gas collection startup. Any attempted corrective measure shall not cause exceedances of other operational or performance standards.		
10.	TLR-I, TLR-II, TLR-III	Surface methane concentration	<u>Surface Methane Concentration Monitoring:</u> (A) For purposes of demonstrating compliance with 40 CFR 60.753(a), WMNH shall place each well or design component as specified in the approved design plan as provided in 40 CFR 60.752 (b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of 5 years or more, if active, or 2 years or more, if closed or at final grade. (B) To determine compliance with the surface methane operational standard (40 CFR 60.753(d)), WMNH shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals for each collection area using an organic vapor analyzer, flame ionization detector, or other portable monitor. (B) WMNH shall determine the background concentration by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. (C) WMNH shall perform surface monitoring in accordance with Section 4.3.1 of Method 21 of Appendix A of 40 CFR Part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. (D) WMNH shall conduct monitoring during typical meteorological conditions. (E) Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance, and WMNH shall take the following actions:	Quarterly and as indicated	40 CFR 60.755 (b), (c) and (d) and 60.756(f)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
			(1) Mark the location of each monitored exceedance and record the location. (2) Conduct cover maintenance or make adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance and re-monitor the location within 10 calendar days of detecting the exceedance. (3) If the remonitoring of the location shows a second exceedance, WMNH shall take additional corrective action as listed in Section (E)(5) below. (4) For any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10 day re-monitoring, WMNH shall re-monitor the location 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. Otherwise, WMNH shall take additional corrective action as listed in (E)(5) below. (1) For any location where monitored methane concentration equals or exceeds 500 ppm above background 3 times within quarterly period, WMNH shall install a new well or other collection device within 120 calendar days of the initial exceedance. An alternative remedy and a corresponding timeline for installation shall be submitted to DES and EPA for approval. (F) WMNH shall monitor surface concentrations of methane according to the instrument specifications and procedures of 40 CFR 60.755(d). Any closed landfill that has no monitored exceedances of the operational standard in 3 consecutive		

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
			quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. (G) WMNH shall comply with the following instrumentation specifications and procedures for surface methane emission monitoring devices: (1) The portable analyzer shall meet the instrument specifications provided in Section 3 of Method 21 of Appendix A of 40 CFR Part 60, except that Amethane≅ shall replace all references to VOC. (2) The calibration gas shall be methane, diluted to a nominal concentration of 500 ppm in air. (3) To meet the performance evaluation requirements in Section 3.1.3 of Method 21 of Appendix A of 40 CFR Part 60, the instrument evaluation procedures of Section 4.4 of Method 21 of Appendix A of 40 CFR Part 60 shall be used. (4) The calibration procedures provided in Section 4.2 of Method 21 of Appendix A of 40 CFR Part 60 shall be followed immediately before commencing a surface monitoring survey.		
11.	TLR-I, TLR-II, TLR-III	Cover	Cover Integrity: WMNH shall implement a program to monitor for cover integrity and implement cover repairs.	Monthly	40 CFR 60.755 (c)(5)
12.	EU01, EU02, EU15, EU16	Continuous flame presence	Continuous Flame and Gas Flow Monitoring: WMNH shall install, calibrate, maintain, and operate according to the manufacturer=s specifications. A heat sensing device, such as an ultraviolet beam sensor or a thermocouple or other equivalent device at the pilot light or the flame itself to indicate the continuous presence of flame.	Continuous	40 CFR 60.756 (c) and 40 CFR 60.18(f)(2)
13.	EU08, EU09	Nitrogen	Nitrogen Monitoring: The nitrogen content of the landfill gas shall be determined daily. If nitrogen monitoring is no longer required under 40 CFR 60 Subpart GG, WMNH may discontinue nitrogen content monitoring.	Daily	40 CFR 60.334(b)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
14.	EU08, EU09	Sulfur	Sulfur Monitoring: (A) WMNH shall monitor sulfur using one of the following methods: ASTM reference methods D1072-80, D3031-81, D3246-81, D4084-82, or other EPA approved methods according to the following schedule: (1) Twice monthly for the first 6 months directly following the EPA=s approval of the custom fuel schedule (issued May 19, 1999), with no two monitoring dates within 10 days of each other; (2) If the average sulfur content from the 12 sulfur content test results (distributed over the first 6 months) is less than 50% of the sulfur limit (according to 40 CFR 60 Subpart GG), and assuming that no one sulfur content monitoring data point is greater than 70% of the 40 CFR 60 Subpart GG sulfur limits, WMNH may notify EPA and DES in writing and provide the test result data. The notification shall be sent return receipt to the following individual at EPA: Rebecca Kurowski Environmental Engineer US EPA Region 1 Office of Environmental Stewardship Air Technical Unit One Congress Street Suite 1100, Mailcode SEA Boston, MA 02114 Upon the return receipt confirmation, WMNH shall reduce monitoring frequency to one measurement per quarter for at least 6 quarters. If EPA or DES has concerns about the data, WMNH shall be notified and shall monitor according to the schedule outlined in (1) above. (3) If condition (2) is met and the sulfur dioxide emissions (calculated from the sulfur content of the last 6 quarters) represent compliance with the sulfur dioxide emission limits in 40 CFR 60.333, then WMNH may notify EPA in writing (addressed to the above, with return receipt requested), provide EPA and DES with the test result data, and upon return receipt confirmation, may reduce sulfur fuel content monitoring frequency to twice per	Custom schedule as outlined	40 CFR 60.334(b)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
			year, during the first and third quarters. If EPA or DES has concerns about the data, WMNH shall be notified and shall monitor according to the schedule outlined in (2) above, unless otherwise directed. (4) If any measurement taken under (1), (2), or (3) (above) indicates non-compliance with 40 CFR 60 Subpart GG, WMNH shall notify DES and EPA within 14 days of learning of such non-compliance, such that the custom fuel monitoring schedule can be reexamined. From the time of said notification, until a determination regarding the custom fuel monitoring schedule is made by EPA, WMNH shall monitor fuel weekly. (5) Within 14 days of learning of any change in fuel supply or significant change in fuel quality, WMNH shall notify EPA of said change, such that the custom fuel monitoring schedule can be reexamined. From the time of said notification, until a determination regarding the custom fuel monitoring schedule is made by EPA, WMNH shall monitor fuel weekly.		
15.	EU07, EU18	Hours and Days of Operation	<u>Emergency Generator Monitoring:</u> For the emergency generator, WMNH shall monitor and record the following: (A) Dates of operation; and (B) Hours of operation.	Whenever operated	State Permit to Operate No. PO-B-1837
16.	EU01, EU02, EU16	Net Heating Value of the Landfill Gas	<u>Net Heating Value Determination:</u> WMNH shall calculate the net heating value of the gas being combusted in Flare Nos. 1,2,and 4 using the following equation: $$H_T = K * \sum_{i+1}^{n} C_i H_i$$ where: HT=Net heating value of the sample, MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;	Annually or upon request by DES and/or EPA	40 CFR 60.18(f)(3)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
			$K = 1.740x10^{-7} \frac{1}{\text{ppm}} \frac{\text{g mole}}{\text{scm}} \frac{\text{MJ}}{\text{kcal}}$ where the standard temperature for $\frac{\text{g mole}}{\text{scm}}$ is $20^{B}C$ Ci=Concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90; and Hi=Net heat of combustion of sample component i, kcal/g mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 if published values are not available or cannot be calculated.		
17.	EU01, EU02, EU16	Exit Velocity	Exit Velocity Determination: The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.	Annually or upon request by DES and/or EPA	40 CFR 60.18 (f)(4),
18.	EU11	VOC (lb/gallon excluding water and exempt compounds)	Material Safety Data Sheets	Continuously	Env-A 1204.07 and Env-A 804.03
19.	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU15, EU16, EU13	VOC Control Efficiency	Per manufacturer's guarantee or testing or other method approved by DES	As requested by DES and/or EPA	Env-A 1204.07, Env-804 and 40 CFR 60.18
20.	Facility wide	Non-fugitive VOC Emissions (lb/month and tons/consecutive12-	VOC recordkeeping using emission factors, stack test results or other EPA-approved emission calculation methods	Monthly	40 CFR 70.6(a)(3)(i)(B)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
		months)			
21.	All fuel burning devices	PM	Method 5 for TSP Method 201A and 202 for PM_{10}	Upon request by DES or EPA	40 CFR 70.6(a)(3)(i)(B)
22.	Non-fuel burning devices	Opacity	Method 22	Upon request by DES or EPA or as determined necessary by WMNH	Env-A 807.05
23.	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08, EU09	Combined CO Emissions (tons per consecutive 12 months)	EPA-approved emission factors and landfill gas flow	Monthly	40 CFR 70.6(a)(3)(i)(B)
24.	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09	Combined NOx Emissions (tons per consecutive 12 months)	EPA-approved emission factors and landfill gas flow	Monthly	40 CFR 70.6(a)(3)(i)(B)
25.	EU15, EU16	SO_2, PM_{10}, NOx, HCl, and CO (tons per consecutive 12 months)	EPA-approved emission factors and landfill gas flow	Monthly	40 CFR 70.6(a)(3)(i)(B)
26.	EU15, EU16, EU17	NOx (tons per consecutive 12 months)	EPA-approved emission factors and landfill gas flow	Monthly	40 CFR 70.6(a)(3)(i)(B)
27.	EU15, EU16, EU17	Dates of Operation	WMNH shall record the dates of operation of Flares Nos. 3, 4 and 5 to ensure that only two of these flares are in operation at any one time.	Whenever Flare No. 3, 4, or 5 are operating	Env-A 906 (new)
28.	Facility wide	HAPs (tons per consecutive 12 months and emission concentration)	Monthly recordkeeping using emission factors, stack test results or other EPA-approved emission calculation methods and conduct testing annually at all landfill gas sources or at places approved by DES to determine the HAP concentrations	Monthly for emission calculations and annually for compliance testing	40 CFR 70.6(a)(3)(i)(B)
29.	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08,	Fuel Metering-Periodic Monitoring	WMNH shall ensure that the fuel metering devices are calibrated at a frequency in accordance with manufacturer's specifications and following manufacturer's recommended procedures. This calibration shall occur at least once annually or in a manner and/or frequency approved by the Division. Manufacturer's	According to manufacturer's specification and/or at least annually	40 CFR 70.6 (a)(3)(i)(B)

Table 7 – Monitoring/Testing Requirements[13]					
Item #	**Device**	**Parameter**	**Method of Compliance**	**Frequency of Method**	**Regulatory Cite**
	EU09, EU13 EU15, EU16, EU17, EU18		specifications/procedures shall be kept on file and made available to DES and/or EPA on request draft		
30.	Facility wide	Dispersion of HAPs, RTAPs and other regulated pollutants	Conduct annual visual inspections of each stack, process unit, and fuel-burning device. Annual inspections shall include a thorough inspection of the condition of each stack exterior, each process unit, and fuel burning device and shall be focused on identifying any holes, leaks, deposits, deficiencies, or deterioration of equipment and stacks.	Annually	40 CFR 70.6 (a)(3)(i)(B)
31.	EU10	Gasoline throughput	Maintain records to ensure that the threshold of 120,000 gallons annual throughput for Stage I vapor recovery is not exceeded.	Monthly	40 CFR 70.6 (a)(3)(i)(B)
32.	EU03, EU04, EU05, EU06, EU08, EU09	Power Generation (in MW-hr or kW-hr)	Beginning, November 18, 2007, WMNH shall determine electrical power generation by either of the following methods: A) By calculating actual electrical power generation in MW-hr by multiplying the heat input in MMBtu obtained from fuel use records by 0.10 MW-hr/MMBtu; or B) By monitoring electrical power generation in kW-hr using one of the monitors specified in Env-A 3705.01(b)(1)	Monthly	Env-A 3705.01
33.	Facility wide	As specified in the regulation	WMNH shall comply with the monitoring requirements of 40 CFR 63 Subpart AAAA	As specified in the regulation	40 CFR 63 Subpart AAAA

F. Recordkeeping Requirements

The Permittee is subject to the Recordkeeping requirements as contained in Table 8 below:

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
1.	Record Retention: WMNH shall retain the records required by this permit on file for a minimum of 5 years.	Retain for a minimum of 5 years	Facility wide	Env-A 902.01(a) (new) and 40 CFR 70.6(a)(3)(B) Federally Enforceable
2.	Recordkeeping for All Sources Emitting Regulated Pollutants: WMNH shall maintain and make available to the Division upon request the following records for any source or device not subject to Env-A 900, *Owner or Operator Recordkeeping and Reporting Obligations*: A) Production data; B) Material usage; C) Equipment manufacturer's specifications; D) Material safety data sheets; E) Fuel consumption; F) Regulated air pollutant emissions; and G) Other similar records, data, and information.	Maintain at facility at all times	Facility wide	Env-A 902.01(b) (new)
3.	General VOC Recordkeeping: WMNH shall record and maintain the following information for sources for which a temporary or state permit to operate is required: A) Facility information: (1) Source name; (2) Source identification; (3) Physical address; and (4) Mailing address. B) Identification of each VOC-emitting device or process, except those associated with non-core activities; C) Operating schedule information for each device or process identified in (B) above: (1) Operating days per calendar week during the normal operating schedule; (2) Operating hours per day during the normal operating schedule and for a typical high ozone season day, if different from the normal operating schedule; and (3) Operating hours per year under normal operating conditions. D) VOC emissions data as follows: (1) Annual potential emissions using	Monthly	Facility wide	Env-A 904.02 (new) and Env-A 901.06 (d) (old) and PO-BP-2727

[14] On April 23, 1999 DES promulgated new Env-A 900 rules to streamline the recordkeeping and reporting requirement sections of the New Hampshire Code of Administrative Rules. Until such time that the new Env-A 900 rules are approved and adopted into the State Implementation Plan (SIP) by EPA, all Title V permits will be incorporating the old Env-A 900 rules (which became effective on November 11, 1992), unless the new Env-A 900 rules are more stringentThese recordkeeping and reporting requirements shall fall under the Permit Shield provisions as contained in Section XIII of this permit.

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	the VOC content for the calculation year for each device or process identified in (B) above: (a) Each year, in tons per year; and (b) A typical day during the high ozone season of each year, in pounds per day. (2) Actual VOC emission from each device or process identified in (B) above: (a) Each year, in tons per year; and (b) A typical day during the high ozone season of each year, in pounds per day. (3) Estimated emissions method code; and (4) Emission factors, if applicable. (5) The calculation of emission estimates for a typical ozone season day shall be based on the mean of the operating and process rate conditions during the high ozone season. (E) The product name, the quantity of material used, VOC content of each raw material, and the actual emissons of regulated VOC for each calendar month during the previous consecutive 12-month period. This includes, but is not limited to the following processes: (1) Landfill gas collection, control, and combustion; (2) Leachate treatment activities; (3) Container coating operations; (4) Maintenance activities; and (5) Degreasing operations.			
4.	Turbine Operating Records: WMNH shall keep and maintain operating records that includes the following information: A) Hours of operation of each turbine; B) Brake horsepower-hours of each turbine; C) Landfill gas flow rate of each turbine: D) Landfill gas nitrogen content as percent volume at 15% oxygen content, dry basis; and E) Electrical generating loads.	Daily	EU08, EU09	State Permits to Operate Nos. PO-B-2010 and PO-B-2001
5.	Flare Operating Records: WMNH shall keep and maintain operating records that includes the following information: A) Hours of operation for each flare; and B) Landfill gas flow rate of each flare.	Daily	EU01, EU02	State Permits to Operate Nos. PO-BP-2545 and PO-B-1927

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
6.	Engine Operating Records: WMNH shall keep and maintain operating records that includes the following information: A) Hours of operation for each engine; B) Landfill gas flow rate of each engine; C) Electrical generating loads. draft	Daily	EU03, EU04, EU05, EU06	State Permits to Operate Nos. PO-B-1821, PO-B-1822, PO-B-1823, and PO-B-1824
7.	Gaseous Fuel Records: WMNH shall maintain monthly records of fuel characteristics and utilization for the propane used in Engines Nos. 1-4, Combustion Turbines Nos. 1 and 2, and Flares Nos. 1-4 and miscellaneous combustion sources in accordance with the following: A) Consumption; B) Fuel type; C) Sulfur content as percent sulfur by weight of fuel; and D) Hours of operation of each combustion device in order to estimate the utilization and distribution of fuel among the devices.	Monthly	EU01, EU02, EU15, EU16, EU13, and Facility wide	Env-A 901.03 and 901.10 (a) (old) and 903.03(a)(4) and (b) (new)
8.	Landfill Gas Records: WMNH shall maintain monthly records of fuel characteristics and utilization for the landfill gas used in Engines Nos. 1-4, Combustion Turbines Nos. 1 and 2, and Flares Nos. 1-4, and the Leachate Treatment Boiler in accordance with the following: A) Consumption; B) Sulfur content as percent sulfur by weight of fuel or in grains per 100 cubic feet of fuel; C) BTU content per cubic foot of the fuel; and D) Hours of operation of each combustion device in order to estimate the distribution of fuel among the devices.	Monthly	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16	Env-A 903.03(a)(5)and (b) (new)
9.	VOC Recordkeeping for Surface Coating: WMNH shall record and maintain the following information: A) Coating formulation and analytical data, as follo ws: (1) Supplier; (2) Name and color; (3) Type; (4) Identification number; (5) Density described as lbs/gal; (6) Total volatiles content described as weight percent; (7) Water content described as weight percent; (8) Exempt solvent content described	For each coating	EU11	Env-A 904.03 (new) and Env-A 901.06 (e) (old)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	as weight percent; (9) VOC content described as weight percent; (10) Solids content described as volume percent; (11) Diluent name and identification number; (12) Diluent solvent density described as lbs/gallon; (13) Diluent VOC content described as weight percent; (14) Diluent exempt solvent content described as weight percent; (15) Volume of diluent VOC described as gallon; and (16) Diluent/solvent ratio described as gallon diluent solvent/gallon coating. B) Number of gallons of each coating, including solvents and diluents, utilized during a typical high ozone season day for each coating. C) Number of gallons of each coating, including solvents and diluents, utilized annually for each coating. D) Process information for each coating identified in Condition A) above for both the normal operating schedule and a typical high ozone season day, if different from the normal operating schedule: (1) Method of application; (2) Number of coats for each coating operation; (3) Drying method, if applicable; and (4) Substrate type and form.			
10.	<u>VOC Recordkeeping for VOL Solvent Metal Cleaning Operations:</u> WMNH shall record and maintain the following information: A) For vapor VOL metal degreasing units, the physical air/vapor interface sizes in square feet; B) Annual and typical high ozone season day solvent throughput; C) Annual and typical high ozone season day process rate; D) Air pollution control equipment information, if applicable; E) Maintenance, inspection and test records, which shall include the following: (1) Air pollution control equipment maintenance records, if applicable; (2) Results of visual inspections	Annual and as applicable	EU12	Env-A 904.05 (new) and Env-A 901.06 (f) (old)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	conducted in accordance with Env-A 800; and (3) Results of tests conducted in accordance with the requirements of Env-A 800.			
11.	VOC Recordkeeping for Add-On VOC Air Pollution Control Devices: WMNH shall record and maintain the following information, as applicable: A) The air pollution control device identification number, type, model number, and manufacturer; B) Installation date; C) Processes or devices controlled; D) The type and location of the capture system, capture efficiency percentage and method of determining capture efficiency; E) Information as to whether or not the control device is always in operation when the processes or devices are in operation; and F) The destruction or removal efficiency of the add-on air pollution control equipment, including: (1) Destruction or removal efficiency, in percent; (2) Current primary and secondary equipment control information codes; (3) Date tested; and (4) The method of determining destruction or removal efficiency, if not tested.	Annually	TLR-I, TLR-II, TLR-III, PCE01, PCE02, PCE03, PCE04, PCE05, PCE06, PCE07, PCE08, PCE09, PCE10, PCE11, PCE12	Env-A 904.07 (new)
12.	General NOx Recordkeeping: WMNH shall record and maintain the following information for the fuel-burning devices at the facility--Engines Nos. 1-4, Combustion Turbines Nos. 1 and 2, Flares Nos. 1-5, the Emergency Generators, the Leachate Treatment Boiler, and miscellaneous combustion devices: A) Facility information: (1) Source name; (2) Source identification; (3) Physical address; and (4) Mailing address. B) Identification of each fuel burning device; C) Operating schedule for each fuel burning device identified in (B) above including the following: (1) Days per calendar week during the normal operating schedule; (2) Hours per day during the normal operating schedule and for a typical	Annually and as applicable	EU01, EU02, EU03, EU04, EU05, EU06, EU07, EU08, EU09, EU13, EU15, EU16, EU17, EU18, and Facility wide	Env-A 905.02 (new) and Env-A 901.08 (old)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	ozone season day, if different from the normal operating schedule; and (3) Hours per year during the normal operating schedule. D) Type and amount of fuel burned for each fuel burning device, during normal operating conditions and for a typical ozone season day, if different from normal operating conditions, on an hourly basis in million BTUs per hour; E) The following NOx emissions data for each combustion device identified in (B) above: (1) Theoretical potential emissions for the calculation year for each fuel burning device or process identified in (B) above: (a) Each year, in tons per year; and (b) A typical day during the high ozone season of each year, in pounds per day. (2) Actual NOx emission for each fuel burning device identified in (B) above: (a) Each year, in tons per year; and (b) A typical day during the high ozone season of each year, in pounds per day.			
13.	Emergency Generator Fuel and Operating Records: WMNH shall record and maintain daily, monthly and consecutive 12-month records as follows: A) Fuel consumption by fuel type; B) Sulfur content as percent sulfur by weight of fuel; C) Btu content per gallon; and D) Dates and hours of operation.	Monthly	EU07, EU18	State Permit to Operate PO-B-1837 and Env-A 901.03 (old) and Env-A 903.03 (new) and 40 CFR 70.6 (a)(3)
14.	Fuel Oil Delivery Tickets: WMNH shall maintain delivery tickets from each fuel oil supplier for each shipment of fuel oil received. The delivery tickets shall be in a form suitable for inspection and available to the DES and/or EPA upon request. Each delivery ticket shall indicate the following: A) The name of the fuel supplier; B) The address of the fuel supplier; C) The telephone number of the fuel supplier; D) The quantity of fuel oil delivered; and	For each delivery of fuel oil	EU07, EU18, and Facility wide	40 CFR 70.6(a)(3) and State Permit to Operate PO-B-1837

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	E) The percent sulfur by weight of the fuel oil delivered. If the delivery tickets do not contain sulfur content of fuel delivered, the Permittee shall provide other documentation from the fuel supplier with the above information or perform testing in accordance with appropriate ASTM test methods to determine compliance with the sulfur content limitation provisions in Env-A 1604(c)(2) for liquid fuels.			
15.	Used Oil Records: WMNH shall maintain analytical results of the used oil generated on-site in a form suitable for inspection. WMNH shall conduct analytical testing annually prior to each heating season and not later than November 1st of each year. If the used oil generated on-site does not comply with any of the specifications, then WMNH shall conduct analytical testing on a monthly basis during the heating season until such time that the used oil generated on-site meets the specifications for three consecutive months. Upon meeting the specifications for three consecutive months, WMNH may resume analytical testing on annual basis prior to the heating season and not later than November 1st. These analytical results shall be available to the DES and/or EPA upon request. The analytical records shall include the following information: A) The name of the analytical laboratory; B) The address of the analytical laboratory; C) The telephone number of the analytical laboratory; D) The analytical methods used for determination of G) 1) to 8) below; E) The volume of used oil in the container tested; F) The reason for rejection of any used oil, if applicable; G) The concentrations (on a dry weight basis, where applicable) of each of the following in the used oil: 1) Sulfur as weight percent; 2) Lead in mg/L; 3) Arsenic in mg/L; 4) Cadmium in mg/L; 5) Chromium in mg/L; 6) Halogens as HCl in mg/L; 7) PCBs in mg/L; and 8) Flash point.	For each analysis	Facility wide	40 CFR 70.6(a)(3), Env-A 1604.01, & Env-Wm 807.03
16.	NOx –Emitting Generation Source Records:	Monthly	EU03, EU04,	Env-A 3706.01

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	Beginning on November 18, 2007, WMNH shall maintain the following records: A) Actual NOx emissions in accordance with the methods set forth in Env-A 620; B) Fuel usage; C) Hours of operation; D) Power generation as monitored pursuant to Env-A 3705.01 E) Hours of downtime of the power generation monitoring system, if applicable, during the time period when the generator is in operation; and F) Frequency and results of calibrations performed on the power generation monitoring system, as applicable.		EU05, EU06, EU08, EU09	
17.	Notification & Record keeping: A) WMNH shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of any source; any malfunction of the air pollution control equipment; or any period during which a continuous monitoring system (e.g., to monitor combustion temperature, flame presence) or monitoring device is inoperative B) The Permittee shall notify the DES of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies and follow procedures established for permit amendments as outlined in Sections XV., XVI., XVII., and XVIII. of this permit; unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e).	At startup, shutdown, and malfunction and for a modification	Facility wide	40 CFR 60 Subpart A Section 60.7
18.	Continuous Monitoring Device Records: For the devices with continuous monitoring devices (e.g., combustion temperature, flame presence), WMNH shall record the information listed below regarding excess emissions. WMNH shall calculate emissions using the monitored landfill gas flow rate and EPA-approved emission factors or stack test data or other information approved by DES and EPA. A) The magnitude of excess emissions computed in accordance with 40 CFR 60.13 (h), any conversion factors used, and the date and time of commencement, completion of each time period of excess emissions, and the process operating time	Monthly	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16	40 CFR 60.7 (c), (d), and (f)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	during the reporting period. B) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. C) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. D) When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired, or adjusted, such information shall be stated. E) WMNH shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection.			
19.	Miscellaneous Waste Records: WMNH shall keep for at least 5 years up-to-date, readily accessible, on-site electronic or hard copy records of the design capacity report, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Offsite records may be maintained if they are retrievable within 4 hours.	Maintain at facility at all times	TLR-I, TLR-II, TLR-III	40 CFR 60.758(a)
20.	Landfill and Control Equipment Records: WMNH shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed below, as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specification shall be maintained until removal. A) The maximum expected gas generation flow rate as calculated according to 40 CFR 60.755(a)(1). B) The density of wells, horizontal collectors,	At each performance test	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16, TLR-I. TLR-II, TLR-III	40 CFR 60.758(b)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR 60.759(a)(1). C) For enclosed combustors (EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15), the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test. D) For enclosed combustors (EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15), the percent reduction of NMOC determined as specified in 40 CFR 60.752(b)(2)(iii)(B) (i.e.,a control device meeting the 98% reduction or 20 ppmvd as hexane outlet concentration requirement) achieved by the control device. E) For boilers, a description of the location at which the collected gas vent stream is introduced into the boiler over the same time period of the performance testing. F) For the open flares, all visible emission readings, heat content determination, exit velocity determinations made during the performance test and continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.			
21.	Equipment Operating Parameter Records: WMNH shall keep 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in Table 7 according to 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. For enclosed combustors, an exceedance is all 3-hour periods of operation during which the average combustion temperature was more than 28 °C below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined.	Maintain at facility at all times	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16	40 CFR 60.758(c)
22.	Active Collection System Records: For the active collection systems, WMNH shall keep records of the following: A) Value and length of time for exceedances of applicable parameters monitored (i.e., temperature, pressure, nitrogen or oxygen	Various	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16, TLR-I,	40 CFR 60.757 (f)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	concentration, and flare pilot light) under 60.756(a), (b), (c), and (d); B) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating; C) All periods when the collection system was not operating in excess of 5 days; D) The location of each exceedance of the 500 parts per million methane concentration as provided in 60.753(d) and the concentration recorded at each location for which an exceedane was recorded in the previous month; E) The date of installation and the location of each well or collection system expansion added pursuant to 60.755 (a)(3), (b), and (c)(4).		TLR-II, TLR-III	
23.	Flare Flame Records: For the open flares, WMNH shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified in Table 7 above and 40 CFR 60.756(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.	Maintain at facility at all times	EU01, EU02, EU16	40 CFR 60.758(c)(4)
24.	Collection System Records: WMNH shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. The following records and documentation shall also be kept: A) The installation date and location of all newly installed collectors; and B) Documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided as well as any nonproductive areas excluded from collection.	Maintain at facility at all times	TLR-I, TLR-II, TLR-III	40 CFR 60.758(d)
25.	Collection and Control System Exceedance Records: WMNH shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards as specified in Table 6 above and 40 CFR 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.	Maintain at facility at all times	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16, TLR-I, TLR-II, TLR-III	40 CFR 60.758(e)

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
26.	Asbestos-Containing Waste Shipment Records: For all asbestos-containing waste material received at the active waste disposal site, WMNH shall conduct the following: A) Maintain waste shipment records, using a form similar to that specified in 40 CFR 61 Subpart M, and include the following information: (1) The name, address, and telephone number of the waste generator. (2) The name, address, and telephone number of the transporter(s). (3) The quantity of the asbestos-containing waste material in cubic meters (cubic yards). (4) The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator and if different, for the disposal site, by the following working day, the presences of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record, too. (5) The date of the receipt. B) As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator. C) Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report it in writing to the local, State or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator and if different, for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit the report along with the waste shipment record. D) Retain a copy of all records and reports for at least 2 years.	Any delivery of asbestos containing wastes	TLR-III	40 CFR 61.154 (e) Waste Shipment Records
27.	Records of Asbestos-Containing Material locations: WMNH shall conduct the following:	Until closure of	TLR-I, TLR-II,	40 CFR 61.154 (f) -

Table 8 – Applicable Recordkeeping Requirements[14]				
Item #	**Recordkeeping Requirement**	**Frequency of Recordkeeping**	**Applicable Emission Unit**	**Regulatory Cite**
	A) Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area. B) Upon closure, comply with all the provisions applicable to inactive waste sites (40 CFR 60.151). C) Submit to the Administrator, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities. D) Furnish upon request and make available during normal business hours, all records required under 40 CFR 61.154 E) Notify the Administrator in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. The notice shall include the following: (1) Scheduled starting and completion dates. (2) The reason for disturbing the wastes. (3) Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material, (4) Location of any temporary storage site and the final disposal site.	disposal site	TLR-III	(j)
28.	F) Monitoring Records: WMNH shall maintain records of monitoring requirements as specified in Table 7 of this Permit.	As specified in Table 7	Facility wide	40 CFR 70.6(a)(3)(iii)(A)
29.	Regulated Toxic Air Pollutant Records: WMNH shall maintain records in accordance with the applicable method used to demonstrate compliance pursuant to Env-A 1406.	Maintain at facility at all times	Facility wide	Env-A 902.01 (c) (new) State Enforceable Only
30.	Permit Deviation Recordkeeping Requirements: WMNH shall promptly record within 24 hours of discovery of a permit deviation the information listed in Section XXVIII of this permit and Env-A 911 (new).	Within 24 hours of discovery of occurrence	Facility wide	Env-A 911.02 (new)
31.	MACT Recordkeeping: WMNH shall comply with the recordkeeping requirements of 40 CFR 63, Subpart AAAA.	As specified in the regulation	Facility wide	40 CFR 63 Subpart AAAA

G. Reporting Requirements

The Permittee is subject to the federally enforceable reporting requirements identified in Table 9 below:

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
1.	VOC Reporting Requirements: WMNH shall submit the following information for all sources subject to the reporting requirements of Env-A 901.07: A) Facility information, including the following: (1) Source name; (2) Source identification; (3) Physical address; and (4) Mailing address. B) Identification of each VOC-emitting process or device operating at the source identified in (A) above; C) Operating schedule information for each device or process identified in (B) above including the following: (1) A typical business day; and (2) A typical high ozone season day, if different from a typical business day. D) Actual VOC emissions for the entire facility and each device or process identified in (B) above including the following: (1) Annual VOC emissions; and (2) Typical high ozone season day emissions. E) Emission factors used to calculate emissions, if applicable.	Annually (no later than April 15th of the following calendar year)	Facility wide	Env-A 901.07(b) (old) and Env-A 908.03 (a)(new)
2.	VOC Reporting for Coating Operations: WMNH shall submit applicable throughput and process data information for the coating operations.	Annually (no later than April 15th of the following calendar year)	EU11	Env-A 901.07(c) (old) and Env-A 908.03 (b)
3.	NOx Reporting Requirements: WMNH shall submit the following information for all sources subject to the reporting requirements of Env-A 901.09: A) Facility information, including the following: (1) Source name; (2) Source identification; (3) Physical address; and (4) Mailing address. B) Identification of each fuel burning device operating at the source identified in (A) above; C) Operating schedule information for each fuel-burning device identified in Condition (B)	Annually (no later than April 15th of the following calendar year)	Facility wide	Env-A 901.09 (old) and 909.03 (new)

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
	above: 1) Days of operation per calendar week during the normal operation schedule; 2) Hours of operation per day during the normal operating schedule and for a typical high ozone season day, if different from the normal operating schedule; and 3) Hours of operation per year under normal operating conditions. D) Type and amount of fuel burned for each fuel-burning device in MMBtu/hr during the following time periods: 1) Normal operating conditions, and 2) For a typical ozone season day, if different from normal operating conditions; E) NOx emissions data for each device identified in Condition (B) above: 1) Annual theoretical potential emissions for each year, in tons per year; 2) Theoretical potential emissions for a typical day during the high ozone season of each year, in pounds per day; 3) Actual NOx emissions for each year, in tons per year; 4) Actual NOx emissions for a typical day during the high ozone season of each year, in pounds per day.			
4.	NOx-Emitting Generation Source Reports: Beginning on November 18, 2007, WMNH shall submit all the data collected pursuant to Env-A 3706.01 (Table 8, Item 15).	Annually (no later than April 15th of the following year)	EU03, EU04, EU05, EU06, EU08, EU09	Env-A 3706.02 and 3706.03
5.	Performance Test Report: WMNH shall submit a performance test report within 30 days after the date of testing.	30 days after stack test	EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15	Env-A 1211.21(c) and State Permits to Operate Nos. PO-B-2010, PO-B-2001, PO-B-1821, PO-B-1822, PO-B-1823, PO-B-1824

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
6.	NMOC Emission Report: A) WMNH shall be exempt from the following reporting requirements while the collection and control system is in operation and in compliance with 40 CFR 60.753 (operational standards for collection and control system) and 40 CFR 60.755 (compliance provisions). B) If the collection and control system are not in operation or not in compliance, then WMNH shall submit an NMOC emission rate report annually. (1) DES and/or EPA may request additional information to verify the reported NMOC emission rate. (2) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR 60.754(a) or (b). (3)The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. C) If the estimated NMOC emission rate as reported in the annual report is less than 50 megagrams per year in each of the next 5 consecutive years, WMNH may elect to submit an estimate of the NMOC emission rate for the next 5-year period instead of the annual report. The estimate shall include the following: (1) The current amount of solid waste-in-place; and (2) The estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated.	Annually when collection and control system are not in place or not in compliance	TLR-I, TLR-II, TLR-III	40 CFR 60.757(b)
7.	Closure Reports: WMNH shall submit a closure report within 30 days of waste acceptance cessation. DES and/or EPA may request additional information as may be necessary to verify that permanent closure has taken place. If a closure report has been submitted, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4).	Within 30 days of waste acceptance cessation	TLR-I, TLR-II, TLR-III	40 CFR 60.757(d)

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
8.	Equipment Removal Report: WMNH shall submit an equipment removal report 30 days prior to removal or cessation of operation of the control equipment. A) DES may request additional information as may be necessary to verify that all of the conditions for removal in 40 CFR 60.752 (b)(2)(v) have been met. B) The equipment removal report shall contain all of the following: (1) A copy of the closure report submitted according to the requirements in Table 9 above. (2) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and (3) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year.	30 days prior to removal or cessation of operation of control equipment	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16	40 CFR 60.757(e)
9.	Active Collection System Reports: For the active collection systems, WMNH shall submit annual reports of the following recorded information: A) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). B) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. C) All periods when the collection system was not operating in excess of 5 days. D) The location of each exceedance of the 500 ppm methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. E) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4).	Annually	TLR-III	40 CFR 60.757(f)

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
10.	(1) Excess Emission Reports for the Turbines: For the purposes of reports required under 40 CFR 60.7(c), periods of excess emissions that WMNH shall report are as follows: A) SO_2: Any period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent. B) Emergency fuel: WMNH shall report each period during which an exemption provided in 40 CFR 60.332(k) is in effect. For each period, WMNH shall report the type, reasons, and duration of the firing of the emergency fuel.	January 31st and July 31st	EU08, EU09	40 CFR 60.334(c)
11.	Continuous Monitoring Device Reports: For devices with continuous monitoring devices, WMNH shall submit excess emissions and monitoring systems performance reports and/or summary report forms to EPA and DES. A) The report shall be postmarked by the 30th day following the ending of each 6-month period. B) Written reports of excess emissions shall include the information listed in 40 CFR 60.7 (c) and (d) and Table 8 under the Continuous Monitoring Device Record section. C) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and the continuous monitoring system downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted to EPA and the Division. D) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total continuous monitoring system downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, both the summary report form and the excess emissions report shall be submitted to EPA and the Division. E) The summary report shall contain the information and be in the format shown in Figure 1 of 40 CFR 60.7 (d) unless otherwise specified by EPA. One summary report form shall be submitted for each pollutant monitored at each affected facility.	Every 6-months	EU01, EU02, EU03, EU04, EU05, EU06, EU08, EU09, EU13, EU15, EU16, EU17	40 CFR 60.7 (c) and (d)
12.	Regulated Toxic Air Pollutant Reports: WMNH	Annually (no later	Facility wide	Env-A 907.01

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
	shall report actual emissions speciated by individual regulated toxic air pollutants, including a breakdown of VOC emission compounds.	than April 15th of the following year)		(new) State Enforceable Only
13.	Semi-Annual Permit Deviation/Monitoring Reports: WMNH shall submit a permit deviation/monitoring report of the data specified in Table 7 of this Permit every 6 months for the periods of January 1st to June 30th and July 1st to December 31st. All required reports must be certified by a responsible official consistent with 40 CFR 70.5(d). The report shall contain a summary of the following information: A) Preventive maintenance and inspection results for stacks, processes, and emission units; B) Fuel oil delivery tickets or sulfur content sampling results; C) Used oil sampling results; D) Opacity; E) NOx, CO, PM_{10}, HCl, VOC, and SO_2 emissions in tons per consecutive 12-month period for each flare, engine and turbine; F) Rolling consecutive 12-month CO emissions for Flares Nos. 1 and 2, Engines Nos. 1-4, Turbines Nos. 1 and 2, and the emergency generator; G) Rolling consecutive 12-month NOx emissions for Flares Nos. 1 and 2, Engines Nos. 1-4, and Turbines Nos. 1 and 2; H) Rolling consecutive 12-month NOx emissions for Flares Nos. 3, 4, and 5; I) Temperature at enclosed combustors; J) Temperature at wellheads; K) Pressure at the landfills; L) Landfill gas flow rate; M) Surface methane concentration; N) Landfill covers; O) Flare flame presence; P) Landfill gas sulfur content; Q) Landfill gas nitrogen content; R) Net heating value at the open flares; S) Exit velocity at the open flares; T) Operating records for the emergency generator; U) SO_2 percent in percent by volume at 15 percent oxygen, dry basis; V) VOC emission rate in lb/gallons excluding water and exempt compounds; W) VOC control efficiency for the flares, engines and turbines; X) Non-fugitive VOC emissions in tons per consecutive 12-month period;	Semiannually (by July 31st and January 31st of each calendar year)	Facility wide	40 CFR 70.6(a)(3)(iii)(A)

Table 9 – Applicable Reporting Requirements				
Item #	**Reporting Requirement**	**Frequency of Reporting**	**Applicable Emission Unit**	**Regulatory Cite**
	Y) HAP emissions in tons per consecutive 12-month period and emission concentration in ppmv; Z) Fuel metering calibrations; AA) Gasoline throughput; BB) Submerged fill records; and CC) All instances of deviations from Permit requirements.			
14.	Prompt Reporting of Permit Deviations: WMNH shall promptly report deviations from permit requirements within 24 hours of discovery of such an occurrence by phone or fax or e-mail in accordance with Section XXVIII of this permit and Env-A 911 (new).	Within 24 hours of discovery of occurrence	Facility wide	Env-A 911 (new) and 40 CFR 70.6 (a)(3)(iii)(B)
15.	Certification by a Responsible Official: Any report or compliance certification submitted to the DES and/or EPA shall contain certification by a responsible official of truth, accuracy, and completeness as outlined in Section XXI.B of this permit.	As specified	Facility wide	40 CFR 70.5 (d)
16.	Annual Reporting and Emissions Fees: WMNH shall submit annual reports of actual emissions of all significant and insignificant activities and payment of emission-based fees in accordance with Section XXIII of this permit and NOxemission reduction fund fees in accordance with Condition VIII, H.	Annually—Reporting by April 15th and payment by October 15th	Facility wide	Env-907.01 (new) and Env-A 704.03 and 704.04
17.	Annual Compliance Certification: WMNH shall submit annual compliance certification in accordance with Section XXI for this permit.	Annually no later than April 15th of the following year	Facility wide	40 CFR 70.6(c)(1)
18.	MACT Reporting Requirements: WMNH shall comply with the reporting requirements of 40 CFR 63 Subpart AAAA.	As specified in the regulation	Facility wide	40 CFR 63 Subpart AAAA

H. NOx Emission Reduction Fund (State Enforceable Only)

1. Pursuant to Env-A 3704.01(a), WMNH shall combine the NOx emissions from all NOx-emitting generation sources (EU03, EU04, EU05, EU06, EU08, and EU09).
2. Pursuant to Env-A 3704.01(b) and RSA 125-J:13, I, WMNH shall not be required to pay NOx emission reduction fund fees for the first 7 pounds of NOx emitted for each megawatt-hr of electricity produced.
3. Beginning in November 18, 2007, WMNH shall calculate the average monthly NOx emissions using the following equation:

$$E_{total} = \left(A_1 + A_2 + ...A_n\right) - \frac{7 * \left(B_1 + B_2 + ...B_n\right)}{2000}$$

Where:

E_{total} = The total NO_x emissions applicable to fees in tons per month;

$A_1, A_2, ..., A_n$ = The actual NO_x emissions in tons per month for each NOx-emitting generation source; and

$B_1, B_2, ..., B_n$ = The actual power generation for each NOx-emitting generation source in megawatt-hours of electricity produced per month.

4. The NOx emission reduction fund fee shall be equal to the total tons of NOx emissions calculated in accordance with Condition H.3. multiplied by the NOx emissions reduction fund fee in dollars per ton as listed in Table 10.

Table 10
NO_x Emissions Reduction Fund Fee

Year	Time Period	NO_x Emissions Reduction Fund Fee (Dollars Per Ton)
2007 and Beyond	January 1 to April 30	500
	May 1 to September 30	1000
	October 1 to December 31	500

IX. Requirements Currently Not Applicable

At the time of issuance of this Permit, the Permittee is not currently subject to the requirements identified in Table 10.

Regulation	Description of Requirement
Env-A 100	Organization rules
Env-A 200	Procedural rules
Env-A 303	New Hampshire air quality standards
Env-A 304	New Hampshire flouride standard
Env-A 400	Acid deposition control requirements
Env-A 611	Acid rain permitting requirements
Env-A 617	Exceptions for research and development operations
Env-A 618	Nonattainment and Northeast Ozone Transport Region permitting requirements
Env-A 703	Testing and monitoring fees for Temporary Permits for non-Title V sources
Env-A 903.02 (new)	Recordkeeping requirements for process source
Env-A 903.04 (new)	Recordkeeping requirements for continuous monitoring systems
Env-A 903.05 (new)	Recordkeeping requirements for fuel suppliers
Env-A 904.06 (new)	VOC recordkeeping for fixed roof and external floating roof VOL storage tanks, bulk gasoline loading terminals, and bulk storage plants and petroleum refineries
Env-A 905.03 (new)	Recordkeeping requirements for NOx air pollution control equipment

Env-A 907.02 (new)	Reporting requirements for sources subject to acid deposition control program.
Env-A 908.03(c) (new)	Reporting requirements for printing operations
Env-a 908.03(e) (new)	Reporting requirements for fixed roof or external floating roof tank, bulk gasoline loading terminals, bulk plants, or petroleum refineries
Env-A 1001	Open burning prohibited
Env-A 1100	Mobile source air pollution standards
Env-A 1204 and 1205	VOC RACT Order application and issuance procedures
Env-A 1204.09	VOC RACT for metal can coating
Env-A 1204.10	VOC RACT for coating of paper, fabric, film and foil substrates
Env-A 1204.11	VOC RACT for vinyl and urethane substrate coating
Env-A 1204.12	VOC RACT for metal furniture coating
Env-A 1204.13	VOC RACT for magnetic wire insulation coating
Env-A 1204.14	VOC RACT for metal coil coating
Env-A 1204.16 through Env-A 1204.24	VOC RACT for plastic parts coating
Env-A 1204.25 through Env-A 1204.35	VOC RACT for coating of wood furniture, burial caskets, and gunstocks
Env-A 1204.36	VOC RACT for rotogravure and flexographic printing
Env-A 1204.37	VOC RACT for offset lithographic printing
Env-A 1204.38	VOC RACT for fixed roof storage tanks
Env-A 1204.39	VOC RACT for external floating roof tanks
Env-A 1204.40	VOC RACT for bulk gasoline loading terminals
Env-A 1204.41	VOC RACT for bulk gasoline plants
Env-A 1204.42	VOC RACT for cutback and emulsified asphalt
Env-A 1204.43 through Env-A 1204.47	VOC RACT for solvent metal cleaning
Env-A 1205.11 through Env-A 1205.18 and Env-A 1205.29	Stage I vapor recovery requirements for cargo trucks
Env-A 1205.19 through Env-A 1205.29	Stage II vapor recovery requirements
Env-A 1211.03	NOx RACT for utility boilers
Env-A 1211.04	NOx RACT for steam electric boilers
Env-A 1211.05	NOx RACT for industrial boilers
Env-A 1211.08	NOx RACT for asphalt plant dryers
Env-A 1211.09	NOx RACT for incinerators
Env-A 1211.10	NOx RACT for wallboard manufacturing facilities
Env-A 1211.12	NOx RACT for auxiliary boilers
Env-A 1211.13	NOx RACT for load shaving units
Env-A 1211.16 and Env-A 1211.17	NOx RACT using emissions averaging
Env-A 1211.19	Seasonal control of NOx emissions
Env-A 1500	Conformity
Env-A 1900	Standards and requirements for incinerators
Env-A 2400	Standards and requirements for ferrous and non-ferrous foundries, smelters and investment casting industries

Env-A 2500 and Env-A 2600	Standards and requirements for pulp and paper industry
Env-A 2700	Standards and requirements for hot mix asphalt plants
40 CFR 60 Subparts B, C, Cb, Cc, Cd, Ce, D, Da, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, K, Ka, Kb, L M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, AAAA, BBBB, CCCC, and DDDD	NSPS for various sources
40 CFR 61 Subparts B, C, D, E, F, H, I, J, K, L, N, O, P, Q, R, T, V, W, Y, BB, FF	NESHAPs for various sources
40 CFR 63 except for 40 CFR 63 Subpart AAAA	NESHAPs/MACTs for various sources
40 CFR 68	Chemical Accident Prevention

General Title V Operating Permit Conditions

X. Issuance of a Title V Operating Permit

A. This Permit is issued in accordance with the provisions of Env-A 609. In accordance with 40 CFR 70.6(a)(2), this Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the date five (5) years after issuance of this Permit.

Permit expiration terminates the Permittee's right to operate the Permittee's emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

B. Pursuant to Env-A 609.02(b), this Permit shall be a state permit to operate as defined in RSA 125-C:11, III.

XI. Title V Operating Permit Renewal Procedures

Pursuant to Env-A 609.07(b), an application for renewal of this Permit shall be considered timely if it is submitted to the Director at least six months prior to the designated expiration date of this Permit.

XII. Application Shield

Pursuant to Env-A 609.08, if an applicant submits a timely and complete application for the issuance or renewal of a Permit, the failure to have a Permit shall not be considered a violation of this part until the Director takes final action on the application.

XIII. Permit Shield

A. Pursuant to Env-A 609.09(a), a permit shield shall provide that:

1. For any applicable requirement or any state requirement found in the New Hampshire Rules Governing the Control of Air Pollution specifically included in this Permit, compliance with the conditions of this Permit shall be deemed compliance with said applicable requirement or said state requirement as of the date of permit issuance; and

2. The Permitee need not comply with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and specifically identified in Section IX of this Title V Operating Permit as not applicable to the stationary source or area source.

B. The permit shield identified in Section XIII.A. of this Permit shall apply only to those conditions incorporated into this Permit in accordance with the provisions of Env-A 609.09(b). It shall not apply to certain conditions as specified in Env-A 609.09(c) that may be incorporated into this Permit following permit issuance by DES.

C. If a Title V Operating Permit and amendments thereto issued by the DES does not expressly include or exclude an applicable requirement or a state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, that applicable requirement or state requirement

shall not be covered by the permit shield and the Permittee shall comply with the provisions of said requirement to the extent that it applies to the Permittee.

D. If the DES determines that this Title V Operating Permit was issued based upon inaccurate or incomplete information provided by the applicant or Permittee, any permit shield provisions in said Title V Operating Permit shall be void as to the portions of said Title V Operating Permit which are affected, directly or indirectly, by the inaccurate or incomplete information.

E. Pursuant to Env-A 609.09(f), nothing contained in Section XIII of this Permit shall alter or affect the ability of the DES to reopen this Permit for cause in accordance with Env-A 609.19 or to exercise its summary abatement authority.

F. Pursuant to Env-A 609.09(g), nothing contained in this section or in any title V operating permit issued by the DES shall alter or affect the following:

1. The ability of the DES to order abatement requiring immediate compliance with applicable requirements upon finding that there is an imminent and substantial endangerment to public health, welfare, or the environment;

2. The state of New Hampshire's ability to bring an enforcement action pursuant to RSA 125-C:15,II;

3. The provisions of section 303 of the CAA regarding emergency orders including the authority of the EPA Administrator under that section;

4. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

5. The applicable requirements of the acid rain program, consistent with section 408(a) of the CAA;

6. The ability of the DES or the EPA Administrator to obtain information about a stationary source, area source, or device from the owner or operator pursuant to section 114 of the CAA; or

7. The ability of the DES or the EPA Administrator to enter, inspect, and/or monitor a stationary source, area source, or device.

XIV. Reopening for Cause

The Director shall reopen and revise a Title V Operating Permit for cause if any of the circumstances contained in Env-A 609.19(a) exist. In all proceedings to reopen and reissue a Title V Operating Permit, the Director shall follow the provisions specified in Env-A 609.19(b) through (g).

XV. Administrative Permit Amendments

A. Pursuant to Env-A 612.01, the Permittee may implement the changes addressed in the request for an administrative permit amendment as defined in Env-A 100 immediately upon submittal of the request.

B. Pursuant to Env-A 612.01, the Director shall take final action on a request for an administrative permit amendment in accordance with the provisions of Env-A 612.01(b) and (c).

XVI. Operational Flexibility

A. Pursuant to Env-A 612.02, the Permittee subject to and operating under this Title V Operating Permit may make changes involving trading of emissions, off-permit changes, and section 502(b)(10) changes at the permitted stationary source or area source without filing a Title V Operating Permit application for and obtaining an amended Title V Operating Permit, provided that all of the following conditions are met, as well as conditions specified in Section XVI. B through E of this permit, as applicable. At this point, DES has not included any permit terms authorizing emissions trading in this permit.

1. The change is not a modification under any provision of Title I of the CAA;

2. The change does not cause emissions to exceed the emissions allowable under the Title V operating permit, whether expressed therein as a rate of emissions or in terms of total emissions;

3. The owner or operator has obtained any temporary permit required by Env-A 600;

4. The owner or operator has provided written notification to the director and administrator of the proposed change and such written notification includes:

   a) The date on which each proposed change will occur;

   b) A description of each such change;

   c) Any change in emissions that will result;

   d) A request that the operational flexibility procedures be used; and

   e) The signature of the responsible official, consistent with Env-A 605.04(b);

5. The change does not exceed any emissions limitations established under any of the following:

   a) The New Hampshire Code of Administrative Rules, Env-A 100-3800;

   b) The CAA; or

   c) This Title V Operating Permit; and

6. The Permittee, DES, and EPA have attached each written notice required above to their copy of this Title V Operating Permit.

B. For changes involving the trading of emissions, the Permittee must also meet the following conditions:

1. The Title V Operating Permit issued to the stationary source or area source already contains terms and conditions including all terms and conditions which determine compliance

required under 40 CFR 70.6(a) and (c) and which allow for the trading of emissions increases and decreases at the permitted stationary source or area source solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements;

2. The owner or operator has included in the application for the Title V Operating Permit proposed replicable procedures and proposed permit terms which ensure that the emissions trades are quantifiable and federally enforceable for changes to the Title V Operating Permit which qualify under a federally- enforceable emissions cap that is established in the Title V Operating Permit independent of the otherwise applicable requirements;

3. The Director has not included in the emissions trading provision any devices for which emissions are not quantifiable or for which there are no replicable procedures to enforce emissions trades; and

4. The written notification required above is made at least 7 days prior to the proposed change and includes a statement as to how any change in emissions will comply with the terms and conditions of the Title V Operating Permit.

C. For off-permit changes, the Permittee must also meet the following conditions:

1. Each off-permit change meets all applicable requirements and does not violate any existing permit term or condition;

2. The written notification required above is made contemporaneously with each off-permit change, except for changes that qualify as insignificant under the provisions of Env-A 609.04;

3. The change is not subject to any requirements under Title IV of the CAA and the change is not a Title I modification;

4. The Permittee keeps a record describing the changes made at the source which result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this Permit, and the emissions resulting from those changes; and

5. The written notification required above includes a list of the pollutants emitted and any applicable requirement that would apply as a result of the change.

D. For section 502(b)(10) changes, the Permittee must also meet the following conditions:

1. The written notification required above is made at least 7 days prior to the proposed change; and

2. The written notification required above includes any permit term or condition that is no longer applicable as a result of the change.

E. Pursuant to Env-A 612.02(f), the off-permit change and section 502(b)(10) change shall not qualify for the permit shield under Env-A 609.09.

XVII. Minor Permit Amendments

A. Pursuant to Env-A 612.05 prior to implementing a minor permit modification, prior to implementing a minor permit modification, the Permittee shall submit a written request to the Director in accordance with the requirements of Env-A 612.05(b).

B. The Director shall take final action on the minor permit amendment request in accordance with the provisions of Env-A 612.05(c) through (g).

C. Pursuant to Env-A 612.05(g), the permit shield specified in Env-A 609.09 shall not apply to minor permit amendments under Section XVII. of this Permit.

D. Pursuant to Env-A 612.05(a), the Permittee shall be subject to the provisions of RSA 125-C:15 if the change is made prior to the filing with the Director of a request for a minor permit amendment.

XVIII. Significant Permit Amendments

A. Pursuant to Env-A 612.06, a change at the facility shall qualify as a significant permit amendment if it meets the criteria specified in Env-A 612.06(a)(1) through (7).

B. Prior to implementing the significant permit amendment, the Permittee shall submit a written request to the Director which includes all the information as referenced in Env-A 612.06(b) and (c) and shall be issued an amended Title V Operating Permit from the DES. The Permittee shall be subject to the provisions of RSA 125-C:15if a request for a significant permit amendment is not filed with the Director and/or the change is made prior to the issuance of an amended Title V Operating Permit.

C. The Director shall take final action on the significant permit amendment in accordance with the Procedures specified in Env-A 612.06(d), (e) and (f).

XIX. Title V Operating Permit Suspension, Revocation or Nullification

A. Pursuant to RSA 125-C:13, the Director may suspend or revoke any final permit issued hereunder if, following a hearing, the Director determines that:

1. The Permittee has committed a violation of any applicable statute or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, order or permit condition in force and applicable to it; or

2. The emissions from any device to which this Permit applies, alone or in conjunction with other sources of the same pollutants, presents an immediate danger to the public health.

B. The Director shall nullify any Permit if, following a hearing in accordance with RSA 541-A:30, II, a finding is made that the Permit was issued in whole or in part based upon any information proven to be intentionally false or misleading.

XX. Inspection and Entry

EPA and DES personnel shall be granted access to the facility covered by this Permit, in accordance with RSA 125-C:6,VII for the purposes of: inspecting the proposed or permitted site; investigating a complaint; and assuring compliance with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and/or conditions of any Permit issued pursuant to Chapter Env-A 600.

XXI. Certifications

A. Compliance Certification Report

In accordance with 40 CFR 70.6(c) the Responsible Official shall certify for the previous calendar year that the facility is in compliance with the requirements of this permit. The report shall be submitted annually, no later than April 15th of the following year. The report shall be submitted to the DES and to the U.S. Environmental Protection Agency – Region I. The report shall be submitted in compliance with the submission requirements below.

In accordance with 40 CFR 70.6(c)(5), the report shall describe:

1. The terms and conditions of the Permit that are the basis of the certification;

2. The current compliance status of the source with respect to the terms and conditions of this Permit, and whether compliance was continuous or intermittent during the reporting period;

3. The methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and

4. Any additional information required by the DES to determine the compliance status of the source.

B. Certification of Accuracy Statement

All documents submitted to the DES shall contain a certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in accordance with the requirements of 40 CFR 70.5(d) and contain the following language:

> "I am authorized to make this submission on behalf of the facility for which the submission is made. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in the enclosed documents are to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

All reports submitted to DES (except those submitted as emission based fees as outlined in Section XXIII of this Permit) shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division

29 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN: Section Supervisor, Compliance Bureau

All reports submitted to EPA shall be submitted to the following address:

Office of Environmental Stewardship
Director Air Compliance Program
United States Environmental Protection Agency
1 Congress Street
Suite 1100 (SEA)
Boston, MA 02114-2023
ATTN: Air Compliance Clerk

XXII. Enforcement

Any noncompliance with a permit condition constitutes a violation of RSA 125-C:15, and, as to the conditions in this permit which are federally enforceable, a violation of the Clean Air Act, 42 U.S.C. Section 7401 et seq., and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the DES and/or EPA. Noncompliance may also be grounds for assessment of administrative, civil or criminal penalties in accordance with RSA 125-C:15 and/or the Clean Air Act. This Permit does not relieve the Permittee from the obligation to comply with any other provisions of RSA 125-C, the New Hampshire Rules Governing the Control of Air Pollution, or the Clean Air Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

In accordance with 40 CFR 70.6 (a)(6)(ii), a Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

XXIII. Emission-Based Fee Requirements

A. The Permittee shall pay an emission-based fee annually for this facility as calculated each calendar year pursuant to Env-A 704.03.

B. The Permittee shall determine the total actual annual emissions from the facility to be included in the emission-based multiplier specified in Env-A 704.03(a) for each calendar year in accordance with the methods specified in Env-A 616.

C. The Permittee shall calculate the annual emission-based fee for each calendar year in accordance

$$FEE = E * DPT * CPIm * ISF$$

with the procedures specified in Env-A 704.03 and the following equation:
Where:

FEE = The annual emission-based fee for each calendar year as specified in Env-A 704.

E = The calculation of total annual emissions as specified in Env-A 704.02 and the provisions specified in Env-A 704.03(a).
DPT = The dollar per ton fee the DES has specified in Env-A 704.03(b).
CPIm= The Consumer Price Index Multiplier as calculated in Env-A 704.03(c).
ISF = The Inventory Stabilization Factor as specified in Env-A 704.03(d).

D. The Permittee shall contact the DES each calendar year for the value of the Inventory Stabilization Factor.

E. The Permittee shall contact the DES each calendar year for the value of the Consumer Price Index Multiplier.

F. The Permittee shall submit, to the DES, payment of the emission-based fee and a summary of the calculations referenced in Sections XXIII.B. and C of this Permit for each calendar year by October 15th of the following calendar year in accordance with Env-A 704.04. The emission-based fee and summary of the calculations shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division
29 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN.: Emissions Inventory

G. The DES shall notify the Permittee of any under payments or over payments of the annual emission-based fee in accordance with Env-A 704.05.

XXIV. Duty To Provide Information

In accordance with 40 CFR 70.6 (a)(6)(v), upon the DES's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall furnish to the DES copies of records that the Permittee is required to retain by this Permit. The Permittee may make a claim of confidentiality as to any information submitted pursuant to this condition in accordance with Env-A 103 at the time such information is submitted to DES. DES shall evaluate such requests in accordance with the provisions of Env-A 103.

XXV. Property Rights

Pursuant to 40 CFR 70.6 (a)(6)(iv), this Permit does not convey any property rights of any sort, or any exclusive privilege.

XXVI. Severability Clause

Pursuant to 40 CFR 70.6 (a)(5), the provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

XXVII. Emergency Conditions

Pursuant to 40 CFR 70.6 (g), the Permittee shall be shielded from enforcement action brought for noncompliance with technology based[15] emission limitations specified in this Permit as a result of an emergency[16]. In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

A. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;

B. The permitted facility was at the time being properly operated;

C. During the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and

D. The Permittee submitted notice of the emergency to the DES within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

XXVIII. Permit Deviation

In accordance with 40 CFR 70.6(a)(3)(iii)(B), the Permittee shall report to the DES all instances of deviations from Permit requirements, by telephone, fax, or e-mail (pdeviations@des.state.nh.us) within 24 hours of discovery of such deviation. This report shall include the deviation itself, including those attributable to upset conditions as defined in this Permit, the probable cause of such deviations, and any corrective actions or preventative measures taken.

Within 15 days of discovery of the permit deviation, the Permittee shall submit a written report including the above information as well as the following: preventive measures taken to prevent future occurrences; date and time the permitted device returned to normal operation; specific device, process or air pollution control equipment that contributed to the permit deviation; type and quantity of excess emissions emitted to the atmosphere due to permit deviation; and an explanation of the calculation or estimation used to quantify excess emissions.

Said Permit deviation shall also be submitted in writing to the DES in the semi-annual summary report of monitoring and testing requirements due July 31st and January 31st of each calendar year. Deviations are instances where any Permit condition is violated and has not already been reported as an emergency pursuant to Section XXVII. of this Permit.

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[15] Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

[16] An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

Reporting a Permit deviation is not an affirmative defense for action brought for noncompliance.